CHICAGO WHEEL AND MFG. COMPANY • CHICAGO

SINCE Chicago 1895

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First and Finest

Save Time
INCREASE PRODUCTION

Chicago Wheels

SERVICE TO INDUSTRY

MOUNTED WHEELS FOR INDUSTRIAL APPLICATION WERE PIONEERED BY CHICAGO WHEEL AND MANUFACTURING COMPANY.

In fact, we have been making mounted wheels for over 40 years. No other phase of grinding has made greater progress in recent years than the use of abrasive wheels permanently mounted on steel mandrels. Method of mounting, style of mandrel or spindle and variation of grains, grades, density, bond and abrasive materials have been worked out in great detail and are largely responsible for the wide-spread use of these valuable little wheels. Countless operations formerly done by hand are now performed with speed and ease at big savings in time, materials and money. There is a proper type of CHICAGO Mounted Wheel for every job and every equipment. A trial use will prove their worth.

They are securely mounted on a steel mandrel, made from a special analysis steel and has a very high margin of safety, no matter what speed they may be operated. All CHICAGO Mounted Wheels are exclusively warranted to remain permanently mounted on the steel mandrel during their entire life. Any which loosen prematurely will be replaced free of all charge.

Chicago Mounted Wheels are economical, for they may be worn to the shank thus saving time

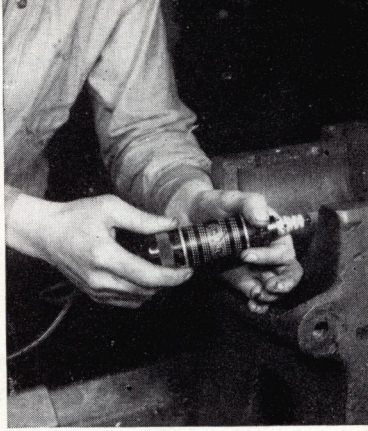
First AND FINEST

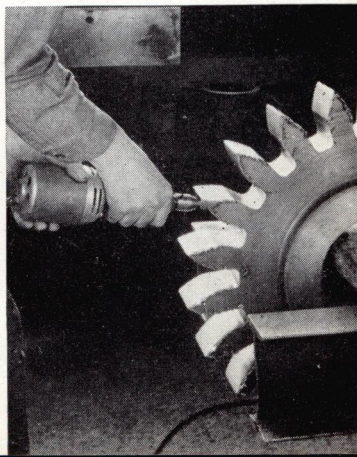
in changing wheels on the machine and increasing production. These wheels are convenient, no nuts or screws to interfere in the work. Blind holes can be ground with ease. Jobs impossible to accomplish with conventional wheels are easy for CHICAGO Mounted Wheels. They are always ready, no time is wasted in mounting with wheel screws, nuts or spindles.

They run either way, no backing off of nut or screw when grinding reverse. This is a decided advantage on many jobs. Their utility is widely recognized because of their ability to reach hard-to-get-at places and perform seemingly impossible jobs.

They are widely adaptable, being used both in precision and offhand grinding. Limits in manufacture are very closely adhered to. They are available from the very smallest size, 3/64" diameter to the largest that might be required.

Any material can be ground with Chicago Mounted Wheels, aluminum, brass, iron, steel, alloy, bakelite, porcelain, glass, rubber—there is no other cutting tool quite so universal as a CHICAGO Mounted Wheel. As most mounted wheels are used in the smaller diameters, the higher the speed, the more efficient the results. However, they can be used at practically any speed.





Available in any grain, grade, bond or abrasive for every conceivable application. You may be certain that there is a correct CHICAGO Mounted Wheel for your job. On pages 6 and 7, you will find detailed grain and grade recommendations and suggestions on selection of the proper type of CHICAGO Mounted Wheel for many kinds of work. You can not exercise too much care when you make your selection.

HANDEE, the tool of 1001 uses, which started a new trend in portable electric tool application, was originated by CHICAGO Wheel and Manufacturing Company. This versatile unit is recommended for the small jobs . . . eliminates tedious hand work, and reaches the hard-to-get-at places. For heavier work, there is the HI-POWER Grinder, developed for jobs obviously beyond the capacity of the HANDEE. All CHICAGO Wheel products are a combination of the finest in engineering skill, experience and quality materials. You will find this helpful catalog crammed with ideas and profitable suggestions that can save you valuable time, money and materials.

Portable Tool Accessories—a wide array of hard-to-get new and original time and money saving accessories are shown in this catalogue. All are designed for high-speed production and operation and are adaptable for use on most air and electric high-speed tools. In many instances, you will find that they will spell the difference between a profit and a loss to you on difficult and perplexing contracts. Check the following pages carefully and you will undoubtedly find a number of valuable accessories that will help improve your shop production methods.

CHICAGO Wheel's long experience in pioneering and developing high-speed equipment and accessories is available to you at all times. Do not hesitate to call on us whenever you have a specialized grinding or polishing problem.

Today, if your plant is engaged in the production of war equipment you will find CHICAGO Wheel products vital for speeding up your production work, saving valuable man-hours and materials.

FOR OVER 40 YEARS

For over forty years Chicago Wheel and Mfg. Company have been manufacturing Grinding Wheels for every industrial application. Many of the present day advances in the Grinding Wheel Industry can be attributed to the pioneering efforts of this firm. No matter what the grinding problem, there is a Chicago Grinding Wheel especially fitted for the job. Our engineering facilities are at your service on any of your grinding problems. Write us today.

RECOMMENDATIONS

CHICAGO MOUNTED WHEELS

MANY of the more common operations upon which CHICAGO Mounted Wheels are indispensable are listed together with recommended grain and grade combinations on pages 8-13. Selection of the proper CHICAGO Mounted Wheel for a job is a very simple matter. There is nothing mysterious in the specifications, and the whole technique of using Mounted Wheels has been boiled down to a minimum number of standards.

ABRASIVES

The grain size used in a Mounted Wheel is largely determined by the size of the wheel. Those 1" to 2" diameter are more commonly in 46 to 60 grain; wheels from 1" down to the smallest diameters are generally in 60 to 150 grain combinations. All wheels with thin edges or sharp points are made in the finer grains so that they will hold their shape over a longer period of time.

For most jobs, CHICAGO Mounted Wheels are made in Regular Aluminous Oxide Abrasive. This gives a reddish-brown wheel of a universal type suitable for the grinding of most materials.

For low tensile strength materials like copper, aluminum, brass, glass and some plastics, green CHICAGO Mounted Wheels made from Silicon of Carbide Abrasive, our trade name "Carsilon," are recommended.

BOND

Most applications are handled with a Vitrified Bond. However, to meet unusual conditions, special bonds have been developed. When not otherwise indicated, we always supply a Vitrified Bond. As is the case with conventional grinding wheels, our bonds are varied in keeping with sizes, shapes and special conditions, so that you may be certain to get the proper type bond in every CHICAGO Mounted Wheel.

V/T SUPER BOND

Wherever the use of a tough, hard bond that will stand the "gaff" that is required, the V/T Super Bond will be found without peer. Nothing can

compare with it in durability, stamina and performance. Tests conducted in many plants from the most precise exacting operations to snagging, prove that the V/T Super Bond has from 150 to 300 per cent longer life. They are tougher, can take more punishment, grind more pieces per wheel, faster and without sacrifice of cutting action. The V/T Super Bond holds its original shape longer. The wheel will not ridge in grinding welds, sharp corners, sinking dies, barbering and other work of this character. A premium bond well worth the slightly higher cost.

RESINOID BOND

On certain specialized operations, Resinoid Bonded CHICAGO Mounted Wheels work out very well. This bond is available in most of the popular sizes and shapes. Prices and complete information on request.

CHICAGO MOUNTED POLISHING WHEELS

Here's the perfect solution for tough polishing jobs. These new CHICAGO Mounted Polishing Wheels are made with a semi-soft rubber bond, and save hours of hand drudgery in finishing tools, dies, jigs and fixtures. Impregnated in each wheel are five complete polishing compounds, in addition to sufficient cutting grit to remove scratches, tool marks, etc. Finishing and polishing become one and the same operation. This type of wheel is ideally suited for use on either precision or portable equipment, including the HANDEE and HI-POWER Grinders. Available in the more popular sizes and shapes of CHICAGO Mounted Wheels, you get in minutes, a finish that by any other method, usually requires hours of work.

Metals such as brass, aluminum, copper, monel, stainless and other alloys are easily handled with CHICAGO Mounted Polishing Wheels. A wide variety of grain and grade combinations permits them to be used on semi-grinding where several thousandths of an inch must be removed to the finest lapping operation.

You can dress the wheel to any desired shape or contour with conventional dressing tools, so that irregular shaped pieces can be polished with ease.

Everything necessary for the complete polishing job is built right into the wheel. Being fairly soft and ductile, they do not require great pressure to get results. You will save time and speed up finishing and polishing operations, presenting marked savings in many ways. The cushioning effect of the wheel makes even the most difficult polishing and finishing job easy.

Due to the shortage and restrictions on rubber, CHICAGO Mounted Polishing Wheels are only available in limited sizes and shapes. For complete information on this vital development, write for Form 971.

SELECTION GUIDE FOR ALL

MATERIAL	OPERATION	WHEEL SIZE	WHEEL SPECIFICATIONS
ALUMINUM	Grinding	5/8″ Dia. and Under	100-O Carsilon
	Polishing	5/8″ Dia. and Under	220-SH Polishing
	Grinding	3/4″ Dia. and Larger	60-R Carsilon
	Polishing	3/4″ Dia. and Larger	220-SH Polishing
BALL RACES	Grinding	5/8″ Dia. and Under	120-O-V-ARC
	Polishing	5/8″ Dia. and Under	220-SH
	Grinding	3/4″ Dia. and Larger	80-O-V-WC
	Polishing	3/4″ Dia. and Larger	220-SH
BAKELITE	Grinding	5/8″ Dia. and Under	80-O Carsilon
	Polishing	5/8″ Dia. and Under	220-SH
	Grinding	3/4″ Dia. and Larger	80-M-B-WC
	Polishing	3/4″ Dia. and Larger	220-SH
BRASS	Grinding	5/8″ Dia. and Under	100-O Carsilon
	Polishing	5/8″ Dia. and Under	220-SH
	Grinding	3/4″ Dia. and Larger	60-M-B-WC
	Polishing	3/4″ Dia. and Larger	220-SH
BRONZE (Hard)	Grinding	5/8″ Dia. and Under	80-O Carsilon
	Polishing	5/8″ Dia. and Under	220-SH
	Grinding	3/4″ Dia. and Larger	60-Q-V-ARC
	Polishing	3/4″ Dia. and Larger	220-SH
BUSHINGS (Hardened Steel)	Grinding	5/8″ Dia. and Under	100-O-W-WC
	Polishing	5/8″ Dia. and Under	220-SH
	Grinding	3/4″ Dia. and Larger	60-O-W-WC
	Polishing	3/4″ Dia. and Larger	220-SH
CAMS (Hardened Steel Internal)	Grinding	5/8″ Dia. and Under	100-O-W-WC
	Polishing	5/8″ Dia. and Under	220-SH
	Grinding	3/4″ Dia. and Larger	60-O-W-WC
	Polishing	3/4″ Dia. and Larger	220-SH
CAMS (Master Airplane)	Grinding	5/8″ Dia. and Under	80-O-V-WC
	Polishing	5/8″ Dia. and Under	220-SH
	Grinding	3/4″ Dia. and Larger	60-Q-V-ARC
	Polishing	3/4″ Dia. and Larger	220-SH
CARBOLOY	Grinding	5/8″ Dia. and Under	120-M Carsilon
	Polishing	5/8″ Dia. and Under	220-SH
	Grinding	3/4″ Dia. and Larger	120-M Carsilon
	Polishing	3/4″ Dia. and Larger	220-SH

CHICAGO MOUNTED WHEELS

MATERIAL	OPERATION	WHEEL SIZE	WHEEL SPECIFICATIONS
CARTRIDGE DIES	Grinding	5/8" Dia. and Under	150-O-W-WC
	Polishing	5/8" Dia. and Under	220-SH
	Grinding	3/4" Dia. and Larger	80-O-W-WC
	Polishing	3/4" Dia. and Larger	220-SH
CAST IRON	Grinding	5/8" Dia. and Under	80-R-V-ARC
	Polishing	5/8" Dia. and Under	220-SH
	Grinding	3/4" Dia. and Larger	60-Q-V-ARC
	Polishing	3/4" Dia. and Larger	220-SH
CONTACT POINTS	Grinding	5/8" Dia. and Under	150-O-W-WC
	Polishing	5/8" Dia. and Under	220-SH
	Grinding	3/4" Dia. and Larger	100-O-W-WC
	Polishing	3/4" Dia. and Larger	220-SH
CHASERS (Thread)	Grinding	5/8" Dia. and Under	120-O-W-WC
	Polishing	5/8" Dia. and Under	220-SH
	Grinding	3/4" Dia. and Larger	80-O-V-WC
	Polishing	3/4" Dia. and Larger	220-SH
CHROMIUM PLATING	Grinding	5/8" Dia. and Under	80-O-V-WC
	Polishing	5/8" Dia. and Under	220-SH
	Grinding	3/4" Dia. and Larger	60-O-B-WC
	Polishing	3/4" Dia. and Larger	220-SH
COMMUTATORS	Grinding	5/8" Dia. and Under	100-O-W-WC
	Polishing	5/8" Dia. and Under	220-SH
	Grinding	3/4" Dia. and Larger	60-O-V-WC
	Polishing	3/4" Dia. and Larger	220-SH
CONNECTING RODS	Grinding	5/8" Dia. and Under	80-R-V-ARC
	Polishing	5/8" Dia. and Under	220-SH
	Grinding	3/4" Dia. and Larger	60-R-VT-ARC
	Polishing	3/4" Dia. and Larger	220-SH
COPPER (Soft)	Grinding	5/8" Dia. and Under	80-M Carsilon
	Polishing	5/8" Dia. and Under	220-SH
	Grinding	3/4" Dia. and Larger	60-M Carsilon
CUTTERS	Grinding	5/8" Dia. and Under	160-O-W-WC
	Polishing	5/8" Dia. and Under	220-SH
	Grinding	3/4" Dia. and Larger	60-O-W-WC
	Polishing	3/4" Dia. and Larger	220-SH

SELECTION GUIDE FOR ALL

MATERIAL	OPERATION	WHEEL SIZE	WHEEL SPECIFICATIONS
CYLINDER HEADS	Grinding	5/8" Dia. and Under	80-O-V-WC
	Polishing	5/8" Dia. and Under	220-SH
	Grinding	3/4" Dia. and Larger	60-M-V-WC
	Polishing	3/4" Dia. and Larger	220-SH
DIES (Forging) (Threading) (Drawing)	Grinding	5/8" Dia. and Under	120-O-W-WC
	Polishing	5/8" Dia. and Under	220-SH
	Grinding	3/4" Dia. and Larger	80-O-V-WC
	Polishing	3/4" Dia. and Larger	220-SH
FIRTHITE	Grinding	5/8" Dia. and Under	120-M Carsilon
	Polishing	5/8" Dia. and Under	220-SH
	Grinding	3/4" Dia. and Larger	120-M Carsilon
	Polishing	3/4" Dia. and Larger	220-SH
FORGINGS (Aluminum and Brass)	Grinding	5/8" Dia. and Under	80-O-V-WC
	Polishing	5/8" Dia. and Under	220-SH
	Grinding	3/4" Dia. and Larger	60-O-V-WC
	Polishing	3/4" Dia. and Larger	220-SH
GAGES	Grinding	5/8" Dia. and Under	120-O-W-WC
	Polishing	5/8" Dia. and Under	220-SH
	Grinding	3/4" Dia. and Larger	80-O-W-WC
	Polishing	3/4" Dia. and Larger	220-SH
GEARS (Hardened Steel)	Grinding	5/8" Dia. and Under	80-R-V-ARC
	Polishing	5/8" Dia. and Under	220-SH
	Grinding	3/4" Dia. and Larger	60-Q-VT-ARC
	Polishing	3/4" Dia. and Larger	220-SH
GLASS	Grinding	5/8" Dia. and Under	120-O Carsilon
	Polishing	5/8" Dia. and Under	220-SH
	Grinding	3/4" Dia. and Larger	80-O Carsilon
	Polishing	3/4" Dia. and Larger	220-SH
GRANITE	Grinding	5/8" Dia. and Under	80-R Carsilon
	Polishing	5/8" Dia. and Under	220-SH
	Grinding	3/4" Dia. and Larger	60-R Carsilon
	Polishing	3/4" Dia. and Larger	220-SH
HASTELLITE	Grinding	5/8" Dia. and Under	120-M Carsilon
	Polishing	5/8" Dia. and Under	220-SH
	Grinding	3/4" Dia. and Larger	120-M Carsilon
	Polishing	3/4" Dia. and Larger	220-SH

CHICAGO MOUNTED WHEELS

MATERIAL	OPERATION	WHEEL SIZE	WHEEL SPECIFICATIONS
KNIVES	Grinding	5/8″ Dia. and Under	120-O-W-WC
	Polishing	5/8″ Dia. and Under	220-SH
	Grinding	3/4″ Dia. and Larger	80-O-V-WC
	Polishing	3/4″ Dia. and Larger	220-SH
MARBLE	Grinding	5/8″ Dia. and Under	80-R Carsilon
	Polishing	5/8″ Dia. and Under	220-SH
	Grinding	3/4″ Dia. and Larger	60-R Carsilon
	Polishing	3/4″ Dia. and Larger	220-SH
MOULDS	Grinding	5/8″ Dia. and Under	100-O-W-WC
	Polishing	5/8″ Dia. and Under	220-SH
	Grinding	3/4″ Dia. and Larger	60-Q-V-ARC
	Polishing	3/4″ Dia. and Larger	220-SH
METALLOGRAPHIC SPECIMENS	Grinding	5/8″ Dia. and Under	150-O-W-WC
	Polishing	5/8″ Dia. and Under	220-SH
	Grinding	3/4″ Dia. and Larger	120-W-WC
	Polishing	3/4″ Dia. and Larger	220-SH
MONEL METAL	Grinding	5/8″ Dia. and Under	80-O-V-WC
	Polishing	5/8″ Dia. and Under	220-SH
	Grinding	3/4″ Dia. and Larger	60-O-V-WC
	Polishing	3/4″ Dia. and Larger	220-SH
NEEDLES	Grinding	5/8″ Dia. and Under	180-O-W-WC
	Polishing	5/8″ Dia. and Under	220-SH
	Grinding	3/4″ Dia. and Larger	120-O-W-WC
	Polishing	3/4″ Dia. and Larger	220-SH
NITRALLOY	Grinding	5/8″ Dia. and Under	80-O-V-WC
	Polishing	5/8″ Dia. and Under	220-SH
	Grinding	3/4″ Dia. and Larger	60-O-B-WC
	Polishing	3/4″ Dia. and Larger	220-SH
PORCELAIN	Grinding	5/8″ Dia. and Under	120-M Carsilon
	Polishing	5/8″ Dia. and Under	220-SH
	Grinding	3/4″ Dia. and Larger	80-M Carsilon
	Polishing	3/4″ Dia. and Larger	220-SH

Over 40 years of Know-How
in the manufacture of Mounted Wheels

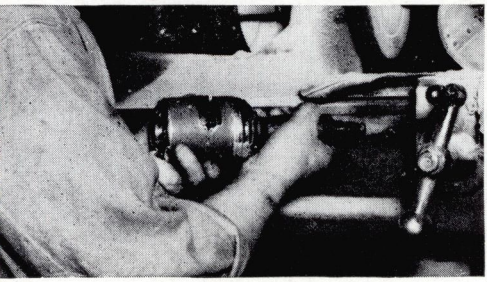
SELECTION GUIDE FOR ALL

MATERIAL	OPERATION	WHEEL SIZE	WHEEL SPECIFICATIONS
RAMET	Grinding	5/8″ Dia. and Under	120-M Carsilon
	Polishing	5/8″ Dia. and Under	220-SH
	Grinding	3/4″ Dia. and Larger	120-M Carsilon
	Polishing	3/4″ Dia. and Larger	220-SH
REAMERS	Grinding	5/8″ Dia. and Under	100-O-W-WC
	Polishing	5/8″ Dia. and Under	220-SH
	Grinding	3/4″ Dia. and Larger	80-O-V-WC
	Polishing	3/4″ Dia. and Larger	220-SH
RIFLE BARRELS	Grinding	5/8″ Dia. and Under	120-O-V-WC
	Polishing	5/8″ Dia. and Under	220-SH
	Grinding	3/4″ Dia. and Larger	80-O-V-WC
	Polishing	3/4″ Dia. and Larger	220-SH
ROLLER BEARINGS CUPS	Grinding	5/8″ Dia. and Under	120-O-W-WC
	Polishing	5/8″ Dia. and Under	220-SH
	Grinding	3/4″ Dia. and Larger	60-Q-V-ARC
	Polishing	3/4″ Dia. and Larger	220-SH
SAWS	Grinding	5/8″ Dia. and Under	80-R-V-ARC
	Polishing	5/8″ Dia. and Under	220-SH
	Grinding	3/4″ Dia. and Larger	60-Q-VT-ARC
	Polishing	3/4″ Dia. and Larger	220-SH
SHEARS	Grinding	5/8″ Dia. and Under	150-O-W-WC
	Polishing	5/8″ Dia. and Under	220-SH
	Grinding	3/4″ Dia. and Larger	80-O-V-WC
	Polishing	3/4″ Dia. and Larger	220-SH
STEEL (Hardened General)	Grinding	5/8″ Dia. and Under	80-O-V-WC
	Polishing	5/8″ Dia. and Under	220-SH
	Grinding	3/4″ Dia. and Larger	60-O-W-WC
	Polishing	3/4″ Dia. and Larger	220-SH
INTERNAL GRINDING (General)	Grinding	5/8″ Dia. and Under	80-O-V-WC
	Polishing	5/8″ Dia. and Under	220-SH
	Grinding	3/4″ Dia. and Larger	60-O-V-WC
	Polishing	3/4″ Dia. and Larger	220-SH

CHICAGO MOUNTED WHEELS

MATERIAL	OPERATION	WHEEL SIZE	WHEEL SPECIFICATIONS
STEEL (Stainless)	Grinding	5/8" Dia. and Under	100-O-W-WC
	Polishing	5/8" Dia. and Under	220-SH
	Grinding	3/4" Dia. and Larger	80-O-W-WC
	Polishing	3/4" Dia. and Larger	220-SH
STELLITE	Grinding	5/8" Dia. and Under	120-M Carsilon
	Polishing	5/8" Dia. and Under	220-SH
	Grinding	3/4" Dia. and Larger	120-M Carsilon
	Polishing	3/4" Dia. and Larger	220-SH
STONE (Artificial)	Grinding	5/8" Dia. and Under	80-R Carsilon
	Polishing	5/8" Dia. and Under	220-SH
	Grinding	3/4" Dia. and Larger	60-R Carsilon
	Polishing	3/4" Dia. and Larger	220-SH
TANTALUM CARBIDE	Grinding	5/8" Dia. and Under	120-M Carsilon
	Polishing	5/8" Dia. and Under	220-SH
	Grinding	3/4" Dia. and Larger	120-M Carsilon
	Polishing	3/4" Dia. and Larger	220-SH
TAPS	Grinding	5/8" Dia. and Under	120-O-V-WC
	Polishing	5/8" Dia. and Under	220-SH
	Grinding	3/4" Dia. and Larger	80-O-V-WC
	Polishing	3/4" Dia. and Larger	220-SH
THREADS	Grinding	5/8" Dia. and Under	150-O-W-WC
	Polishing	5/8" Dia. and Under	220-SH
	Grinding	3/4" Dia. and Larger	100-O-W-WC
	Polishing	3/4" Dia. and Larger	220-SH
TOOLS (Chip Breakers)	Grinding	5/8" Dia. and Under	120-O-W-WC
	Polishing	5/8" Dia. and Under	220-SH
	Grinding	3/4" Dia. and Larger	80-O-V-WC
	Polishing	3/4" Dia. and Larger	220-SH
WELDS	Grinding	5/8" Dia. and Under	80-O-V-WC
	Polishing	5/8" Dia. and Under	220-SH
	Grinding	3/4" Dia. and Larger	60-Q-VT-ARC
	Polishing	3/4" Dia. and Larger	220-SH

CHICAGO MOUNTED WHEELS



GROUP A . . . Wheels are mounted on the following mandrels, 1/4", 3/16" and 15/64" diameter, in lengths of 1" or 1½". Any CHICAGO Mounted Wheel in Group A can be mounted on longer shanks (1/4" x 2⅝") at an additional charge of 5c each, list. Please specify the diameter and length of the mandrel wanted when ordering.

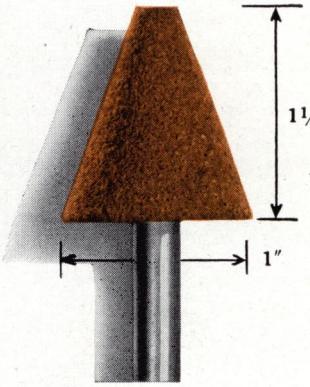
First and Finest

Photographs of all CHICAGO Mounted Wheels are actual size, correct within a few thousandths of an inch. You actually see what you get.

Prices Below Are List Subject to Discount

Dia. Shanks 1/4"

A1
List 1.90 ea.



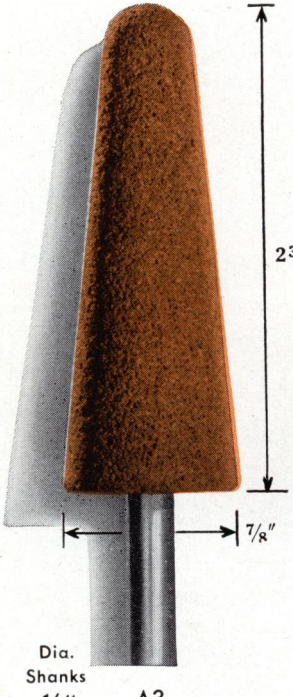
A2
List 1.15 ea.

Mounted Wheels in the "A" Group are suited for use on all types of flexible shafts and portable equipment, having chuck capacities of 1/4", 15/64" and 3/16". Threaded shanks are available in all threads. All CHICAGO Wheel mandrels are made from a special type of steel, carefully ground and polished. These wheels, generally speaking, are too large for practical operation on the lightest equipment-chuck capacities of only 1/8" or 3/32".

First and Finest

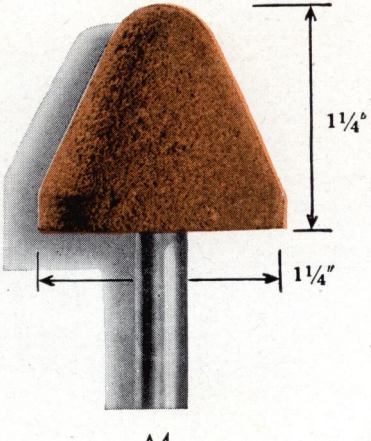
Photographs of all CHICAGO Mounted Wheels are actual size, correct within a few thousandths of an inch. You actually see what you get.

Prices Below Are List Subject to Discount



Dia. Shanks 1/4"

A3
List 2.05 ea.



A4
List 1.30 ea.

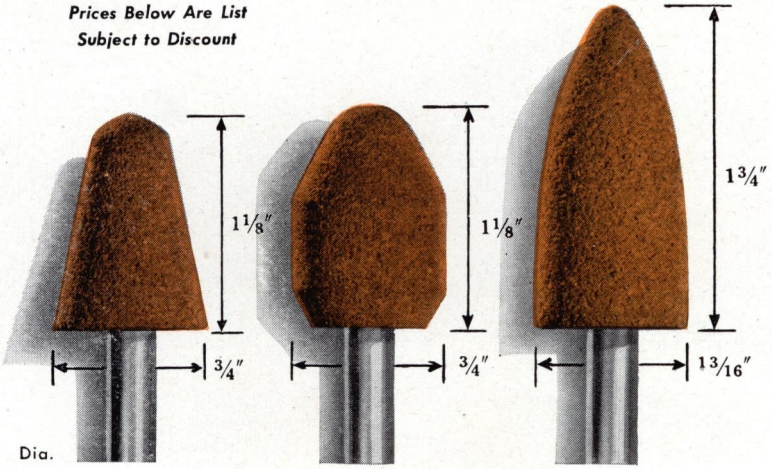
CHICAGO MOUNTED WHEELS

Millions of CHICAGO Mounted Wheels are daily performing every conceivable kind of grinding and polishing operation in machine, pattern and die shops, tool rooms, ordnance plants, foundries and arsenals. Designed for rapid smoother work, wherever portable grinders are used.

First and Finest

Photographs of all CHICAGO Mounted Wheels are actual size, correct within a few thousandths of an inch. You actually see what you get.

Prices Below Are List Subject to Discount



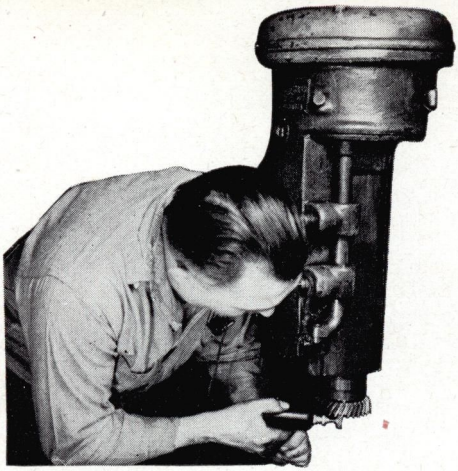
Dia. Shanks 1/4"

A5
List 1.10 ea.

A6
List 1.10 ea.

A11
List 1.40 ea.

A SHAPE FOR EVERY



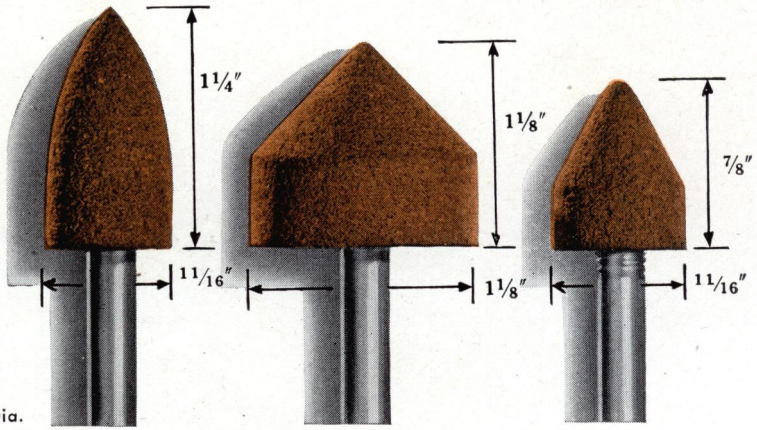
DOING THE JOB BEHIND THE LINES

For gear knicking, marking and inspection, CHICAGO Mounted Wheels are without equal. In every plant where man hours and savings are essential, you will find CHICAGO Mounted Wheels. Every metal worker instantly recognizes the value of these modern production time savers.

Photographs of all CHICAGO Mounted Wheels are actual size, correct within a few thousandths of an inch. You actually see what you get.

Prices Below Are List Subject to Discount

First and Finest



Dia. Shanks ¼"

A12 List 1.10 ea.

A13 List 1.30 ea.

A14 List .85 ea.

CHICAGO MOUNTED WHEELS

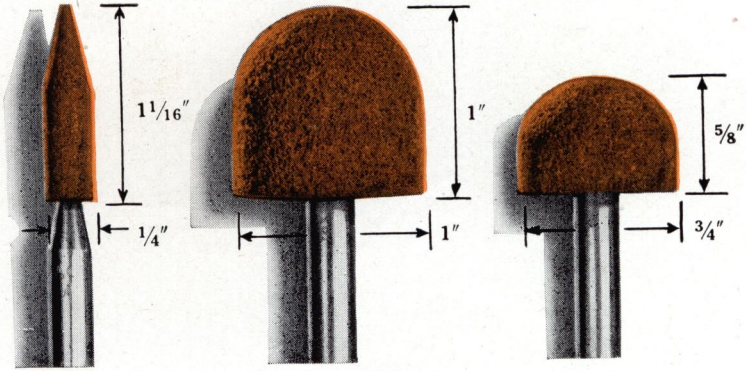
You save time, money and materials with CHICAGO Mounted Wheels. They can be used over and over again, and are vital in today's drive to speed up production. They hold their shape . . . are easily dressed with conventional dressing methods to grind even the most elusive radii and difficult angles.

They run either way, no backing off of nut or screw when grinding reverse. This is a decided advantage on many jobs. Their utility is widely recognized because of their ability to reach hard-to-get-at places and perform seemingly impossible jobs.

First and Finest

Photographs of all CHICAGO Mounted Wheels are actual size, correct within a few thousandths of an inch. You actually see what you get.

Prices Below Are List Subject to Discount



Dia. Shanks 1/4"

A15
List 1.05 ea.

A21
List .90 ea.

A22
List .80 ea.

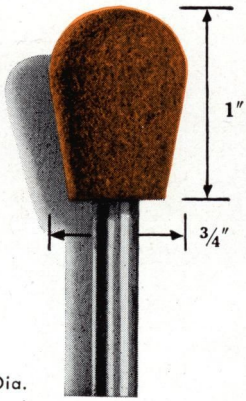
Limits in manufacture are very closely adherred to. They are available from the very smallest size, 3/64" diameter to the largest that might be required.

For burring, knicking, breaking sharp corners, in fact, on any grinding operation, you will find CHICAGO Mounted Wheels to be truly industry's most versatile tool. Every bench in every shop should have a complete assortment.

Photographs of all CHICAGO Mounted Wheels are actual size, correct within a few thousandths of an inch. You actually see what you get.

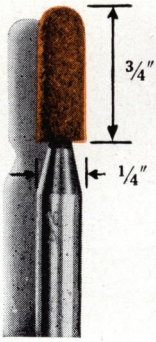
First and Finest

Prices Below Are List Subject to Discount

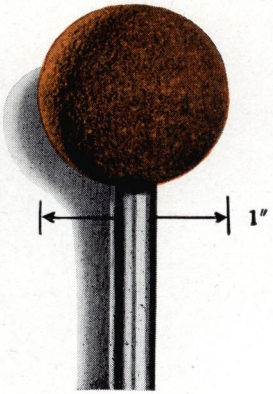


Dia. Shanks 1/4"

A23
List .85 ea.



A24
List .75 ea.



A25
List .90 ea.

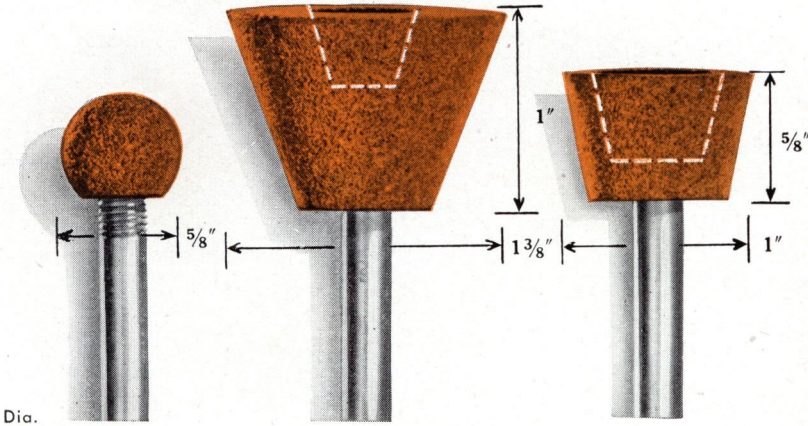
CHICAGO MOUNTED WHEELS

"CHICAGO" Mounted Wheels are highly adaptable to special applications. In many instances providing the only means of doing an otherwise impossible job. You are not confined to their use on specialized equipment, indeed they can be inserted in the chuck of a drill press, flexible shaft, lathe tool post grinder, portable drill and of course the wide variety of portable grinders available. Typical on general shop applications of CHICAGO Mounted Wheels would be the sharpening of a gouge or similar tool, having a concaved surface that might be ground. High speed tool bits mounted in a lathe or other machine can be touched up without removing them. Hollow mortising chisels can be readily sharpened with a special shape provided for this operation.

Photographs of all CHICAGO Mounted Wheels are actual size, correct within a few thousandths of an inch. You actually see what you get.

First and Finest

Prices Below Are List Subject to Discount



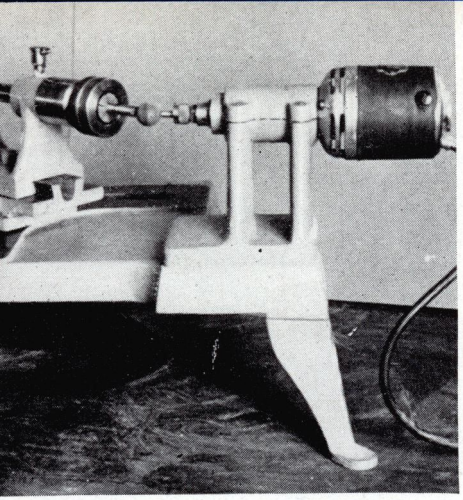
Dia. Shanks 1/4"

A26
List .80 ea.

A31
List 1.10 ea.

A32
List .85 ea.

SAVE TIME, MONEY



POLISH THEM OFF WITH A CHICAGO MOUNTED WHEEL

Here is a typical example of the adaptability of CHICAGO Mounted Wheels and a special set-up, quickly made at low cost employing a portable electric grinder and ball shaped mounted wheel for grinding spherical radius in a punch.

First and Finest

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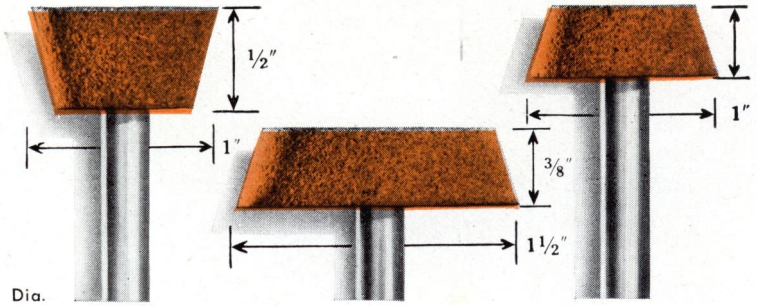
Prices Below Are List Subject to Discount



Dia. Shanks 1/4"

A33 List .80 ea.

A34 List .95 ea.

A35 List .80 ea.

CHICAGO MOUNTED WHEELS

In maintenance, precious man hours can often be saved with the use of CHICAGO Mounted Wheels. Often perishable tools can be touched up while set on the job, chip breakers ground and maintained on broaches, acorn dies ground, dies relieved while set in form on the press, all without taking down, thus saving precious man hours of set-up time. In maintenance, CHICAGO Mounted Wheels should be in the kit of every millwright and service man.

First and Finest

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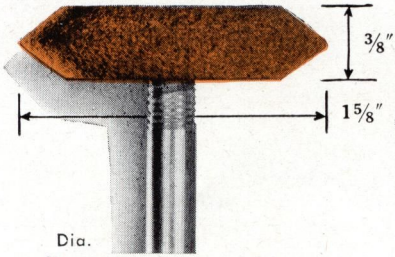
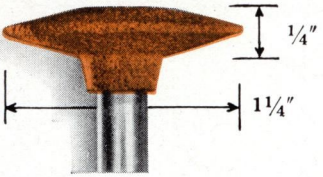
Prices Below Are List Subject to Discount

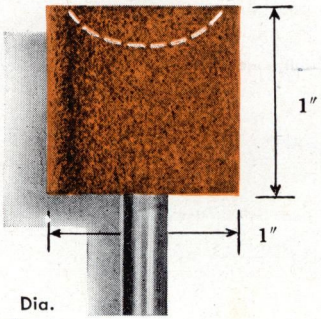


Dia. Shanks 1/4"

A36
List 1.10 ea.

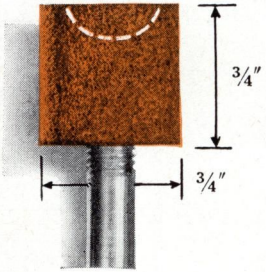


A37
List .85 ea.



Dia. Shanks 1/4"

A38
List .75 ea.



A39
List .65 ea.

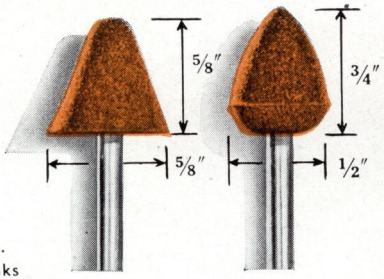
Photographs of all CHICAGO Mounted Wheels are actual size, correct within a few thousandths of an inch. You actually see what you get.

GROUP B WHEELS

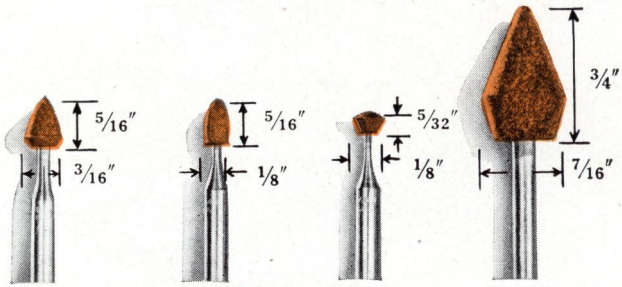
This group includes the smaller shaped CHICAGO Mounted Wheels available on 1/8" or 3/32" diameter mandrel. IMPORTANT: The numeral 5 preceding the shape number indicates 1/8" and 1½". The numeral 4 indicates a shank 3/32" x 1½". Numeral 8 indicates shapes available on 1/4" diameter mandrel.

First and Finest

Prices Below Are List Subject to Discount



Dia. Shanks	5-B41	5-B42	5-B43	5-B44
1/8"	4-B41	4-B42	4-B43	4-B44
3/32"	8-B41	8-B42		
1/4"				
	List .80 ea.	List 75. ea.	List .70 ea.	List .70 ea.



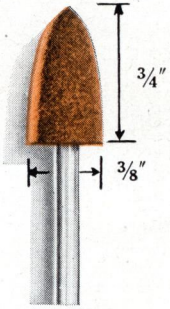
Dia. Shanks	5-B45	5-B46	5-B47	5-B51
1/8"	4-B45	4-B46	4-B47	4-B51
3/32"				8-B51
1/4"				
	List .70 ea.	List .70 ea.	List .65 ea.	List .75 ea.

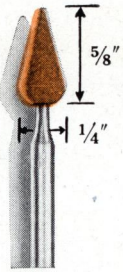
CHICAGO MOUNTED WHEELS

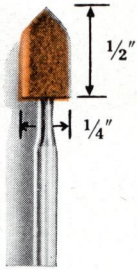
The wide variety of wheel shapes with convenient small size enable you to reach hard to get at and inaccessible places with ease and to perform delicate grinding operations with precision. These valuable shop allies are increasing war production on cartridge dies, diesel fuel injection valves, plane motor parts, superchargers, and a host of other vital work.

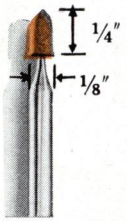
Photographs of all CHICAGO Mounted Wheels are actual size, correct within a few thousandths of an inch. You actually see what you get.

Prices Below Are List Subject to Discount



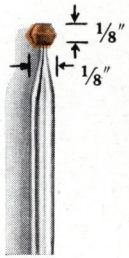


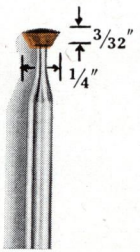


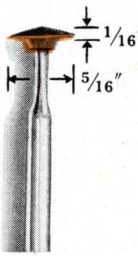


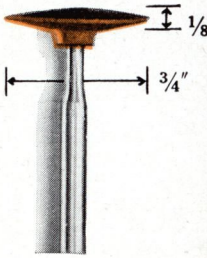
Dia. Shanks

1/8"	3/32"	1/4"	List
5-B52	4-B52	8-B52	List .75 ea.
5-B53	4-B53		List .75 ea.
5-B54	4-B54		List .70 ea.
5-B55	4-B55		List .65 ea.





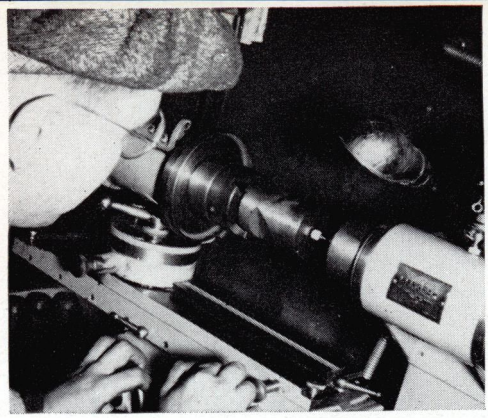




Dia. Shanks

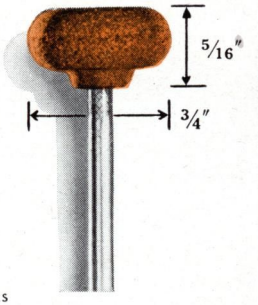
1/8"	3/32"	List
5-B65	4-B65	List .65 ea.
5-B68	4-B68	List .65 ea.
5-B69	4-B69	List .65 ea.
5-B70	4-B70	List .70 ea.

ADAPTABLE TO



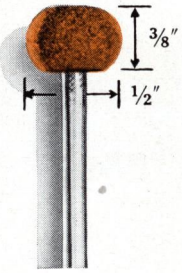
When puzzled on a difficult grinding job, try a CHICAGO Mounted Wheel. They have solved many of the jobs that "just could not be ground." Adaptable to all equipment, they will save any shop time, money and materials. Can be dressed quickly to any contous or radius for plunge grinding.

First and Finest

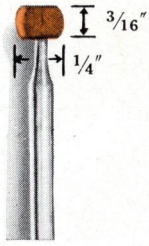


Dia. Shanks
1/8"
3/32"
1/4"

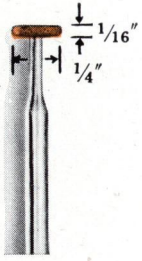
5-B61
4-B61
8-B61
List .75 ea.



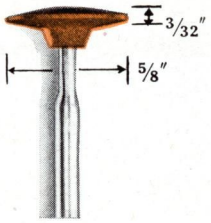
5-B62
4-B62
8-B62
List .70 ea.



5-B63
4-B63
List .65 ea.

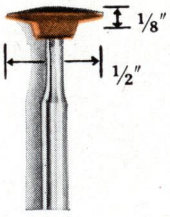


5-B64
4-B64
List .65 ea.

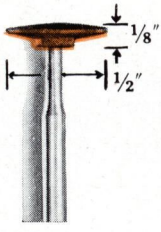


Dia. Shanks
1/8"
3/32"

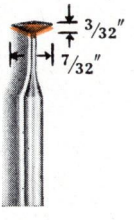
5-B71
4-B71
List .70 ea.



5-B72
4-B72
List .65 ea.



5-B73
4-B73
List .65 ea.



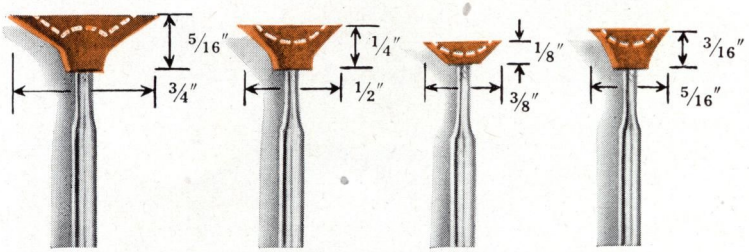
5-B74
4-B74
List .65 ea.

CHICAGO MOUNTED WHEELS

In arsenals and war production plants you will find skilled mechanics and craftsmen relying on CHICAGO Mounted Wheels to do a dependable time-saving job. In very few fields is this precision so vital as in the aircraft and allied industries. Manufacturers of airplane engines agree that CHICAGO Mounted Wheels are indispensable . . . the slightest error in adjustment or precision may spell the difference between life and death in the air . . . so on precision jobs, use CHICAGO Wheels.

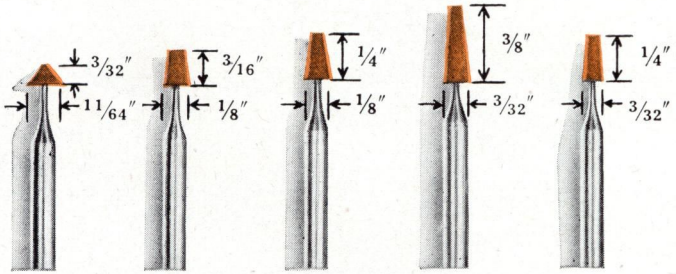
First and Finest

Photographs of all CHICAGO Mounted Wheels are actual size, correct within a few thousandths of an inch. You actually see what you get.



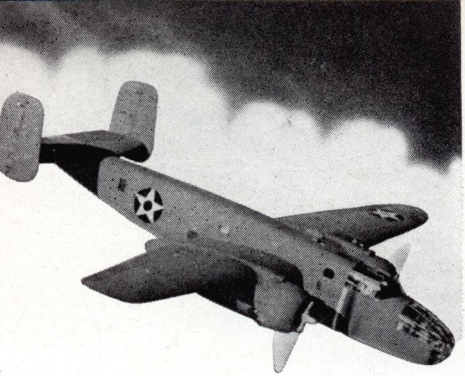
Dia. Shanks 1/8" 3/32"

5-B81	5-B82	5-B83	5-B84
4-B81	4-B82	4-B83	4-B84
List .70 ea.	List .65 ea.	List .65 ea.	List .65 ea.



Dia. Shanks 1/8" 3/32"

5-B94	5-B95	5-B96	5-B97	5-B98
4-B94	4-B95	4-B96	4-B97	4-B98
List .65 ea.	List .65 ea.	List .65 ea.	List .70 ea.	List .65 ea.

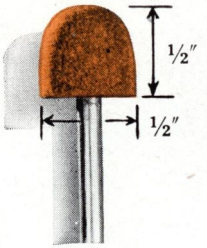


On soft, non-ferrous metals where there is a tendency to load the wheel with metal, try running the wheel against a stick of tallow or a cake of laundry soap. Often this will keep the face free from sticky soft metals and speed the job.

First and Finest

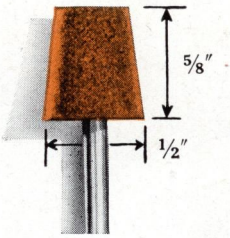
Photographs of all CHICAGO Mounted Wheels are actual size, correct within a few thousandths of an inch. You actually see what you get.

Prices Below Are List Subject to Discount

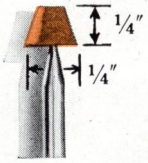


Dia. Shanks
1/8" 3/32" 1/4"

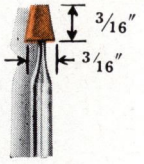
5-B90
4-B90
List .75 ea.



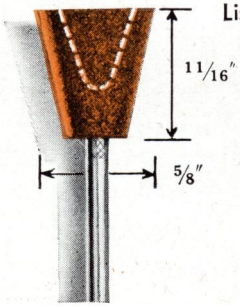
5-B91
4-B91
8-B91
List .75 ea.



5-B92
4-B92
List .65 ea.

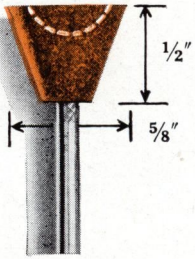


5-B93
4-B93
List .65 ea.

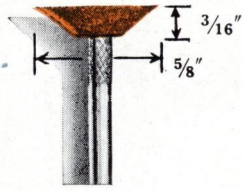


Dia. Shanks
1/8" 3/32" 1/4"

5-B101
4-B101
8-B101
List .80 ea.



5-B102
4-B102
8-B102
List .75 ea.



5-B103
4-B103
8-B103
List .70 ea.

CHICAGO MOUNTED WHEELS

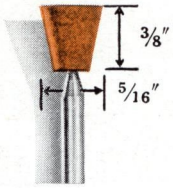
CHICAGO Mounted Wheels can be trued and dressed with all conventional dressing methods. A wheel dressing stone, Huntington Dresser or diamonds may be used for this purpose. Diamonds or trueing tools of this type may be used on precision operation to keep the wheel true and to maintain the shape. For offhand work, an ordinary Huntington Dresser or wheel dressing stone is recommended as being perfectly adaptable.

Photographs of all CHICAGO Mounted Wheels are actual size, correct within a few thousandths of an inch. You actually see what you get.

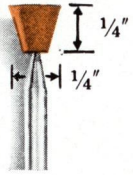
Prices Below Are List Subject to Discount

First and Finest

Dia. Shanks
1/8"
3/32"

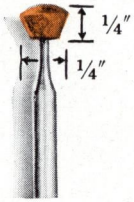


5-B104
4-B104
List .70 ea.

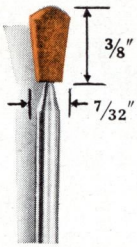


5-B105
4-B105
List .65 ea.

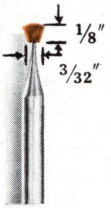
Dia. Shanks
1/8"
3/32"
1/4"



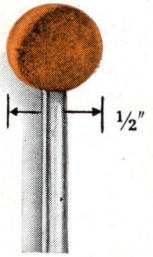
5-B113
4-B113
List .65 ea.



5-B114
4-B114
List .70 ea.



5-B115
4-B115
List .65 ea.



5-B121
4-B121
8-B121
List .70 ea.

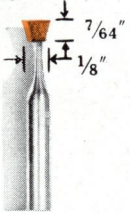
PRODUCE SUPER-SMOO

Always apply your CHICAGO Mounted Wheel to the work carefully, until it just touches. Never jam the wheel against the work when starting the job. Always chuck the wheel with as little of the mandrel extending from the chuck as possible. The less overhang, the more better the results.

Photographs of all CHICAGO Mounted Wheels are actual size, correct within a few thousandths of an inch. You actually see what you get.

First and Finest

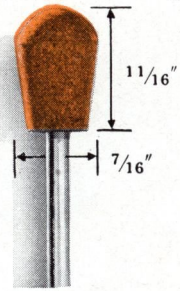
Prices Below Are List Subject to Discount



Dia. Shanks
1/8"
3/32"
1/4"

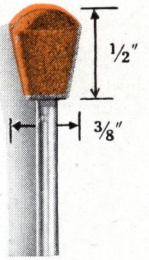
5-B106
4-B106

List .65 ea.



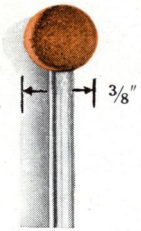
5-B111
4-B111
8-B111

List .75 ea.



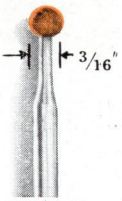
5-B112
4-B112

List .70 ea.

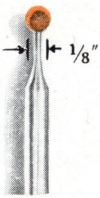


Dia. Shanks
1/8"
3/32"

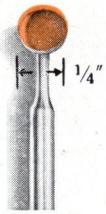
5-B122
4-B122
List .70 ea.



5-B123
4-B123
List .65 ea.



5-B124
4-B124
List .65 ea.



5-B125
4-B125
List .65 ea.

TH SURFACE FINISHES

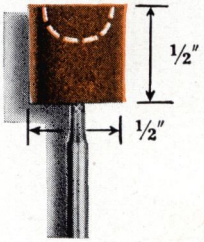
CHICAGO MOUNTED WHEELS

You can grind blind holes easily with CHICAGO Mounted Wheels. No interference from nuts or wheel screws. On precision or offhand portable equipment, these wheels will help you get work out on schedule. Available in a complete range of grains, grades, abrasives and bonds to meet any grinding condition or type of equipment. CHICAGO Mounted Wheels are produced by specialists with over forty years' experience in this field.

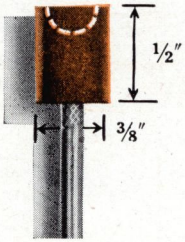
Photographs of all CHICAGO Mounted Wheels are actual size, correct within a few thousandths of an inch. You actually see what you get.

First and Finest

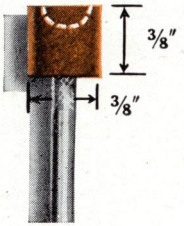
Dia. Shanks
1/8"
3/32"
1/4"



5-B131
4-B131
8-B131
List .55 ea.

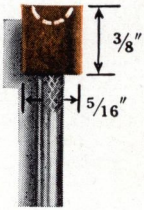


5-B132
4-B132
8-B132
List .55 ea.

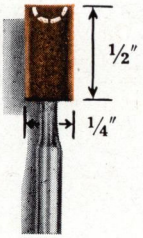


5-B133
4-B133
8-B133
List .55 ea.

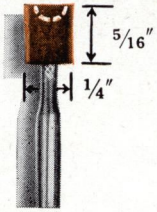
Dia. Shanks
1/8"
3/32"
1/4"



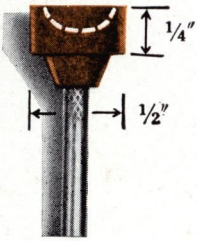
5-B134
4-B134
8-B134
List .55 ea.



5-B135
4-B135
8-B135
List .55 ea.



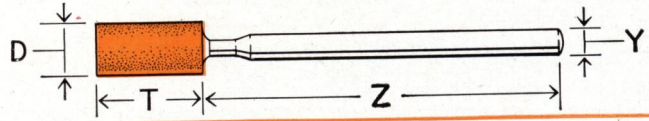
5-B136
4-B136
8-B136
List .55 ea.



5-B137
4-B137
8-B137
List .55 ea.

GRIND IT WITH A CHI

HOW TO ORDER GROUP W—STRAIGHT WHEELS—This group of CHICAGO Mounted Wheels includes plain shapes, straight, cylindrical or disc shaped wheels furnished on 3/32", 1/8", 3/16", 15/64" or 1/4" diameter mandrels. The numeral "4" preceding the letter "W" designates mandrel 3/32" diameter, 1½" long; the numeral "5" preceding the letter "W" designates mandrel 1/8" diameter, 1½" long; the numeral "6" preceding the letter "W" designates mandrel 1/8" diameter, 2⅝" long; the numeral "7" preceding the letter "W" designates mandrel 1/4" diameter, 1" long. The numeral "8" preceding the letter "W" designates mandrel 1/4" diameter, 1½" long. Mounted Wheels from size W141 up to and including W246.



	Wheel Size		Mandrel Size					List Price
			Y Z	Y Z	Y Z	Y Z	Y Z	
	D	T	3/32 1½	1/8 1½	1/8 2⅝	1/4 1	1/4 1½	
3/32	3/32	5/32	4W141	5W141	6W141	.....	.....	.50
	3/32	1/4	4W142	5W142	6W142	.....	.....	.50
1/8	1/8	1/8	4W143	5W143	6W143	.....	.....	.50
	1/8	1/4	4W144	5W144	6W144	.....	.....	.50
	1/8	3/8	4W145	5W145	6W145	.....	.....	.55
	1/8	1/2	4W146	5W146	6W146	.....	.....	.55
5/32	5/32	1/32	4W147	5W147	6W147	.....	.....	.50
	5/32	1/16	4W148	5W148	6W148	.....	.....	.50
	5/32	1/4	4W149	5W149	6W149	.....	.....	.50
3/16	3/16	1/16	4W150	5W150	6W150	.....	.....	.50
	3/16	1/8	4W151	5W151	6W151	.....	.....	.50
	3/16	1/4	4W152	5W152	6W152	.....	.....	.50
	3/16	3/8	4W153	5W153	6W153	.....	.....	.55
	3/16	1/2	4W154	5W154	6W154	.....	.....	.55
13/64	13/64	1/4	4W155	5W155	6W155	.....	.....	.50
1/4	1/4	1/32	4W156	5W156	6W156	.....	.....	.50
	1/4	1/16	4W157	5W157	6W157	.....	.....	.50
	1/4	1/8	4W158	5W158	6W158	.....	.....	.50
	1/4	3/16	4W159	5W159	6W159	.....	.....	.50
	1/4	1/4	4W160	5W160	6W160	7W160	8W160	.50
	1/4	5/16	4W161	5W161	6W161	7W161	8W161	.55
	1/4	3/8	4W162	5W162	6W162	7W162	8W162	.55
	1/4	1/2	4W163	5W163	6W163	7W163	8W163	.55
	1/4	3/4	4W164	5W164	6W164	7W164	8W164	.60

When ordering CHICAGO Mounted Wheels with mandrels in sizes not given here, specify diameter and length.

ABOVE PRICES SUBJECT TO DISCOUNT

CHICAGO MOUNTED WHEELS

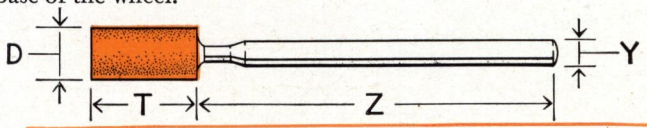
"D"—largest diameter of the abrasive wheel in inches.

"T"—width, length, height or thickness of the mounted wheel in inches.

"Z"—length projection of steel shank in inches.

"Y"—diameter of shank in inches.

The length of a mandrel is always measured by its extension from the base of the wheel.



Wheel Size			Mandrel Size							List Price
	D	T	Y 3/32	Z 1½	Y 1/8	Z 1½	Y 1/8	Z 2⅝	Y 1/4 Z 1	Y 1/4	Z 1½	
5/16	5/16	1/16	4W165		5W165		6W165		.....	.....		.50
	5/16	1/8	4W166		5W166		6W166		.....	.....		.50
	5/16	1/4	4W167		5W167		6W167		7W167	8W167		.50
	5/16	5/16	4W168		5W168		6W168		7W168	8W168		.55
	5/16	3/8	4W169		5W169		6W169		7W169	8W169		.55
	5/16	1/2	4W170		5W170		6W170		7W170	8W170		.55
	5/16	3/4	4W171		5W171		6W171		7W171	8W171		.60
3/8	3/8	1/16	4W172		5W172		6W172		.....	.....		.50
	3/8	1/8	4W173		5W173		6W173		.....	.....		.50
	3/8	1/4	4W174		5W174		6W174		7W174	8W174		.50
	3/8	3/8	4W175		5W175		6W175		7W175	8W175		.55
	3/8	1/2	4W176		5W176		6W176		7W176	8W176		.55
	3/8	3/4	4W177		5W177		6W177		7W177	8W177		.60
	3/8	1	4W178		5W178		6W178		7W178	8W178		.65
	3/8	1-1/4	4W179		5W179		6W179		7W179	8W179		.80
1/2	1/2	1/32	4W180		5W180		6W180		.....	.....		.50
	1/2	1/16	4W181		5W181		6W181		.....	.....		.50
	1/2	1/8	4W182		5W182		6W182		7W182	8W182		.50
	1/2	1/4	4W183		5W183		6W183		7W183	8W183		.50
	1/2	3/8	4W184		5W184		6W184		7W184	8W184		.55
	1/2	1/2	4W185		5W185		6W185		7W185	8W185		.55
	1/2	3/4	4W186		5W186		6W186		7W186	8W186		.60
	1/2	1	4W187		5W187		6W187		7W187	8W187		.65
	1/2	1-1/2	4W188		5W188		6W188		7W188	8W188		.95
	1/2	2	4W189		5W189		6W189		7W189	8W189		1.20
5/8	5/8	1/16	4W190		5W190		6W190		7W190	8W190		.55
	5/8	1/8	4W191		5W191		6W191		7W191	8W191		.55
	5/8	1/4	4W192		5W192		6W192		7W192	8W192		.55

ABOVE PRICES SUBJECT TO DISCOUNT

STRAIGHT MOUNTED WHEELS

Straight or plain shaped CHICAGO Mounted Wheels are available in Vitrified, Resinoid or V/T Super Bond in all types of abrasives. These wheels are furnished exact to size as indicated, and not oversize. Therefore, when you order, bear in mind that you will receive a CHICAGO Mounted Wheel of the exact size you have ordered.

SPECIAL THREADED MANDRELS are available in most size wheels. None are listed as standard, and we are prepared to furnish anything that might be required.

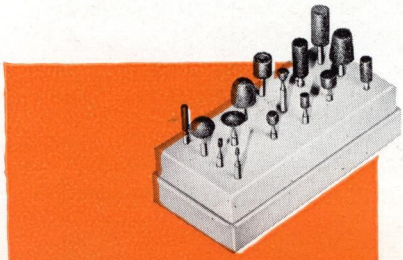
	Wheel Size		Mandrel Size					List Price
			Y Z	Y Z	Y Z	Y Z	Y Z	
	D	T	3/32 1½	⅛ 1½	⅛ 2⅝	¼ 1	¼ 1½	
5/8	5/8	3/8	.....	5W193	6W193	7W193	8W193	.60
	5/8	1/2	.....	5W194	6W194	7W194	8W194	.60
	5/8	3/4	.....	5W195	6W195	7W195	8W195	.65
	5/8	1	.....	5W196	6W196	7W196	8W196	.70
	5/8	2	.....	.....	.....	7W197	8W197	1.25
	5/8	2-1/2	.....	.....	.....	7W198	8W198	1.55
3/4	3/4	1/16	4W199	5W199	6W199	7W199	8W199	.55
	3/4	1/8	4W200	5W200	6W200	7W200	8W200	.55
	3/4	1/4	4W201	5W201	6W201	7W201	8W201	.55
	3/4	3/8	.....	5W202	6W202	7W202	8W202	.60
	3/4	1/2	.....	5W203	6W203	7W203	8W203	.60
	3/4	3/4	.....	5W204	6W204	7W204	8W204	.65
	3/4	1	.....	5W205	.....	7W205	8W205	.70
	3/4	1-1/4	.....	.....	.....	7W206	8W206	.85
	3/4	1-1/2	.....	.....	.....	7W207	8W207	1.00
	3/4	2	.....	.....	.....	7W208	8W208	1.25
	3/4	2-1/2	.....	.....	.....	7W209	8W209	1.55
7/8	7/8	1/16	4W210	5W210	6W210	7W210	8W210	.60
	7/8	1/8	4W211	5W211	6W211	7W211	8W211	.60
	7/8	1/4	4W212	5W212	6W212	7W212	8W212	.60
	7/8	3/8	.....	5W213	6W213	7W213	8W213	.65
15/16	15/16	1/4	4W214	5W214	6W214	7W214	8W214	.60
1	1	1/8	4W215	5W215	6W215	7W215	8W215	.60
	1	1/4	4W216	5W216	6W216	7W216	8W216	.60
	1	3/8	.....	5W217	6W217	7W217	8W217	.65
	1	1/2	.....	5W218	6W218	7W218	8W218	.65
	1	3/4	.....	5W219	6W219	7W219	8W219	.70
	1	1	.....	.....	.....	7W220	8W220	.75
	1	1-1/2	.....	.....	.....	7W221	8W221	1.05
	1	2	.....	.....	.....	7W222	8W222	1.30
	1	2-1/2	.....	.....	.....	7W223	8W223	1.60
	1	3	.....	.....	.....	7W224	8W224	*

ABOVE PRICES SUBJECT TO DISCOUNT * Price on Application

CHICAGO MOUNTED WHEELS

	Wheel Size		Mandrel Size						List Price
			Y	Z	Y	Z	Y	Z	Y	Z	
	D	T	½	⅞	½	1½	¼	1	¼	1½	Each
1-1-4	1-1/4	1/4	.....	.....	.....		7W225		8W225		$0.70
	1-1/4	3/8	.....	.....	.....		7W226		8W226		.75
	1-1/4	1/2	.....	.....	.....		7W227		8W227		.75
	1-1/4	3/4	.....	.....	.....		7W228		8W228		.80
	1-1/4	1	.....		2W229		7W229		8W229		.90
	1-1/4	1-1/4	.....		2W230		7W230		8W230		1.05
	1-1/4	1-1/2	.....		2W231		7W231		8W231		1.25
	1-1/4	2	9W232		2W232		7W232		8W232		1.55
	1-1/4	2-1/2	9W233		2W233		7W233		8W233		1.90
	1-1/4	3	9W234		2W234		7W234		8W234		2.20
1-1/2	1-1/2	1/4	9W235		.....		7W235		8W235		.75
	1-1/2	1/2	9W236		.....		7W236		8W236		.80
	1-1/2	1	9W237		2W237		7W237		8W237		.95
	1-1/2	1-1/2	9W238		2W238		7W238		8W238		1.30
	1-1/2	2	9W239		2W239		7W239		8W239		1.60
	1-1/2	2-1/2	9W240		2W240		.....		.....		1.95
	1-1/2	3	9W241		2W241		.....		.....		2.25
2	2	1	9W242		2W242		.....		.....		1.20
	2	1-1/2	9W243		2W243		.....		.....		1.60
	2	2	9W244		2W244		.....		.....		2.00
	2	2-1/2	9W245		2W245		.....		.....		2.40
	2	3	9W246		2W246		.....		.....		2.80
2-1/2	2-1/2	1	9W250		2W250		.....		.....		1.50
	2-1/2	1-1/2	9W251		2W251		.....		.....		2.00
	2-1/2	2	9W252		2W252		.....		.....		2.50
	2-1/2	2-1/2	9W253		2W253		.....		.....		2.95
	2-1/2	3	9W254		2W254		.....		.....		3.45
3	3	1	9W260		2W260		.....		.....		1.85
	3	1-1/2	9W261		2W261		.....		.....		2.45
	3	2	9W262		2W262		.....		.....		3.05
	3	2-1/2	9W263		2W263		.....		.....		3.65
	3	3	9W264		2W264		.....		.....		4.25

Chicago Metal Wheels from numbers W237 to W264 are available in special shapes—prices on application.



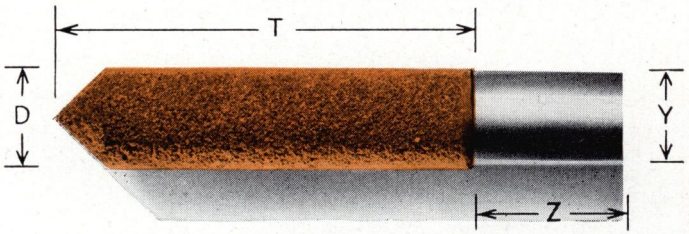
SPECIAL SET CHICAGO MOUNTED WHEELS

Set No. 3 contains 15 wheels. You will find all the necessary practical shapes and sizes of Mounted Wheels in the correct grain and grade in this general utility set. Price is **$9.65**

CENTER LAPPING

We furnish all required sizes and shapes of wheels for center lapping machines. Even though the mandrel may be of a special type, you can depend upon us to give you the correct material.

This type of Mounted Wheel has many advantages over conventional sticks in grinding or lapping centers. Whether you use one of the new machines, especially designed for this purpose, or regular equipment, you will find a CHICAGO Mounted Wheel for center grinding and lapping outstanding.



Wheel Size		Mandrel Size			Price Each
		Y Z	Y Z	Y Z	
D	T	¼ 1	½ ⅞	½ 2½	
1/2	2	7W189	9W189	2W189	$1.45
1/2	2-1/2	7W247	9W247	2W247	1.90
1/2	3	7W248	9W248	2W248	2.20
5/8	2	7W197	9W197	2W197	1.50
5/8	2-1/2	7W198	9W198	2W198	1.90
5/8	3	7W249	9W249	2W249	2.20
3/4	2	7W208	9W208	2W208	1.50
3/4	2-1/2	7W209	9W209	2W209	1.90
3/4	3	7W250	9W250	2W250	2.20
1	2	7W222	9W222	2W222	1.55
1	2-1/2	7W223	9W223	2W223	1.95
1	3	7W224	9W224	2W224	2.20

Above wheels subject to discount

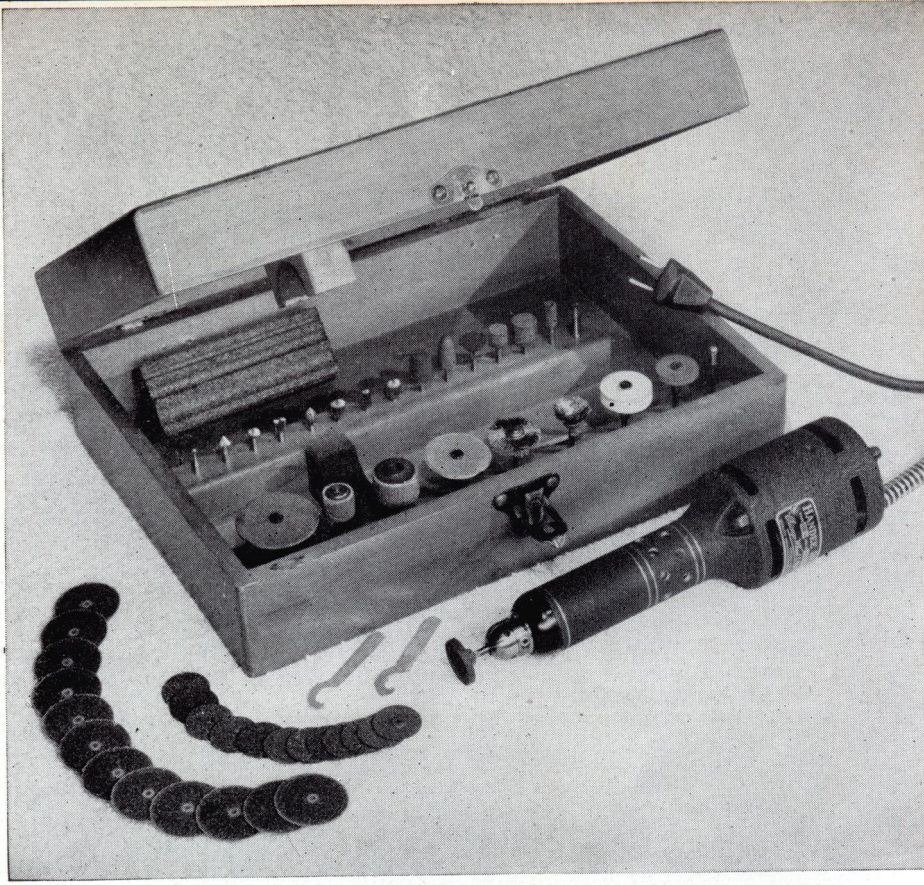
CONTOUR GRINDERS—CHICAGO Mounted Wheels are available in all required sizes and shapes for all types of contour grinders. Some of the mandrels on contour grinders are of a special type. When ordering your wheels, give us the name of the manufacturer of your equipment, as it will be helpful in furnishing you with the proper type CHICAGO Mounted Wheel.

HANDEE MODEL "44"

THE FINEST LIGHT-WEIGHT, portable, electric grinder ever developed. With over forty-four new, unusual, outstanding time and money-saving features. Light enough in weight to be easily handled with "pencil-point precision" but powerful and perfectly balanced. Features that contribute to the versatility and efficiency of the HANDEE "44" are . . . the independent smoothly-operating grinding spindle built into the handpiece. An entirely new method for accurately chucking accessories giving outstanding precision for delicate and precise work.

EXCLUSIVE QUALITY FEATURES include ease of servicing. In a jiffy you can detach the motor from the handpiece. The unit can be completely serviced by anyone. The HANDEE "44" has speed, accuracy, power and versatility, which lets you grind, drill, polish, cut, carve, sand, saw, and engrave on all materials —*faster*—without sacrificing either efficiency or precision.

SPECIFICATIONS — HANDEE "44" comes complete in a fine wood-carrying case with the finest accessories we offer. Speed, 20,000 r.p.m. with a higher maintained work speed than any tool of its weight. Operates on any 110-220 volt, AC or DC, 25 to 60 cycle electric current. Extra interchangeable spring collets available, 1/16" and 3/32" capacity; comes equipped with ⅛" and 3/32" collets. Length, 8½"; weight, 2 lbs.



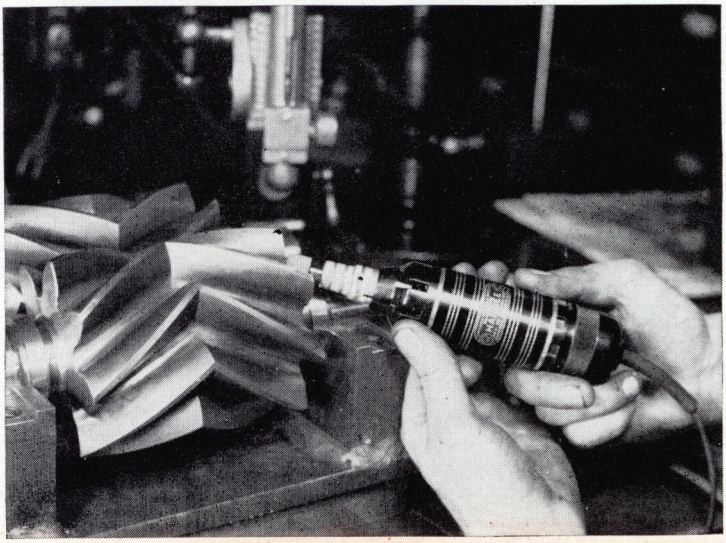
HANDEE "44" comes complete with a wide array of accessories suitable for all types of work. *Price, complete*..... **$52.50**

THE SET INCLUDES CHICAGO Steel Cutters, 5900, 5902, 5909, 5910, 5914, 5915, 5917, 5918; CHICAGO Mounted Wheels, 5B52, 5B103, 5B135, 5B170, 5W175, 5W185, 5W211; also No. 23A drum sander with 12 No. 24 extra bands; 3/32" collet; ½x½" rubber polishing point, No. 29 rubber polishing wheel; 3 No. 39 and 2 No. 17A mandrels; 12 1¼" and 12 No. 25 rubber cutting discs; No. 12S and No. 49 brushes, No. 3019 rubber cutting disc; No. 205 wheel dressing stone.

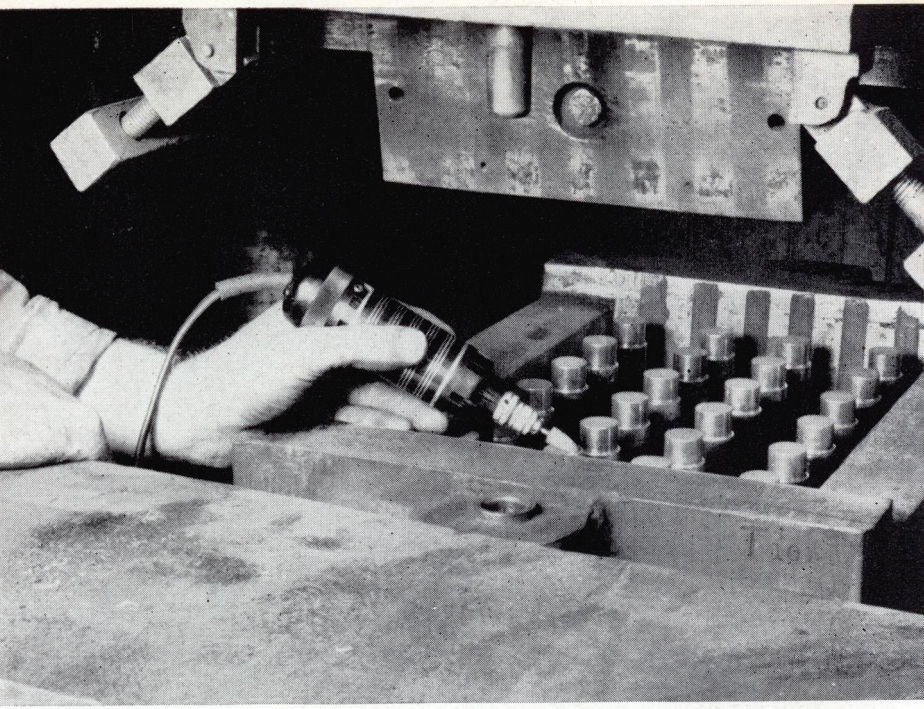
DE LUXE HANDEE

SAVES TIME, MATERIAL AND MONEY

THE HANDEE DOES AWAY WITH SLOW HAND WORK . . . grinds, drills, cuts, carves, sands, saws, engraves, sharpens, cleans and roughs. Works on any material with the over 300 accessories that have been especially designed for use with this wide utility tool. Over 200 different types of industry have adopted the HANDEE for the time and money it saves. Every craftsman, mechanic or repairman will find the tool indispensable. It reaches those hard-to-get-at places with ease. Many times this versatile tool will pay for itself on one application in the shop. Cleans up jobs that otherwise would have to be set on a machine. **WIDELY USED FOR INSPECTION, FOR MARKING AND ENGRAVING.** It handles like a fountain pen or pencil. In fact, you can mark with a HANDEE on any material as rapidly as you can write on paper.



SIMPLIFY A THOUS



THE HANDEE VERSATILITY lends itself to a host of different set-ups around every shop. Many times, hours of dead time of a machine can be saved by making adjustments while set in form right on the press, with perfect balance. Being shaped to fit the hand, you can reach inaccessible places. Made to the most rigid specifications as even the most expensive tools, De Luxe HANDEE is built with a seven-segment commutator for greater life, power, speed and stamina. You will find after you have used a De Luxe Model HANDEE for thirty minutes on any job, that it is an indispensable tool you should not be without, for many times its modest cost. Order a De Luxe Model HANDEE with one application in the shop in mind, and before you've had it long, you will find dozens of uses for this versatile tool. It licks those seemingly impossible jobs, getting into the most inaccessible places. The HANDEE is not a toy, nor is it an adaptation of a toy-like motor, but an especially designed tool imparting precision and high speed of industrial specifications at a price anyone can afford.

DE LUXE HANDEE

HANDLES AS EASILY AS A PENCIL

TIME-TESTED and reliable . . . thousands of De Luxe HANDEES are in daily use in every branch of industry. Here is a hand-full of mechanical perfection . . . perfectly controlled speed and power that will perform hundreds of jobs in your plant and quickly pay for itself in time and labor saved. Discriminating craftsmen and mechanics know by experience, that the De Luxe Model HANDEE "delivers the goods." By every standard, it is the finest tool of its kind obtainable. Guaranteed to be more powerful . . . more accurate . . . more dependable and definitely superior to any tool of its weight or type.

ILLUSTRATION AT THE RIGHT shows the De Luxe HANDEE in actual size. You can see how perfectly balanced it is . . . how it is designed to fit the hand and reach those hard-to-get-at places. Totally unlike anything you have seen before, the De Luxe HANDEE is a whole shop full of tools in one. With the wide array of accessories developed for use with this many-purpose tool, you can work on any material. Make this test in your own shop or plant . . . order the De Luxe HANDEE. Try the tool for ten days. Then, if you are not perfectly satisfied, return it to us for full credit.

Catalog No. 3009. De Luxe Model HANDEE comes complete with 1/8" collet, three CHICAGO Mounted Wheels 5W211, 5B137, 5B53; CHICAGO Soft Rubber Polishing Wheel No. 29 mounted on a No. 39 mandrel; Drum Sander No. 44 and 3 bands; Wheel Dressing Stone No. 204; Steel Cutter No. 5905; special high speed lubricating oil and applicator for 110-120 volts, AC or DC, 25 to 60 cycles . . . . . **$18.50 NET**

Catalog No. 2009. Same as above, only for 220 volts, AC or DC, 25 to 60 cycles . . . **$20.35 NET**

SPECIFICATIONS

LENGTH over-all, including chuck, 6". EXTREME DIAMETER, 1 5/8". WEIGHT, 12 OZS. SPEED, 25,000 r.p.m., ample for all requirements. MOTOR, approved seven-segment commutator. Universal type, operates on any 110 volt, AC or DC, 25 to 60 cycle current (available for special voltages). BRUSHES, easily replaceable, made from special carbon composition for long wear. BALL BEARING construction, the finest precision ground specially selected triple grease-sealed. CORD and TOOL fully listed as standard by Underwriters' Laboratories. Listing No. E12752. Low operating cost.

Interchangeable spring collet chuck for accuracy. Collet capacities available 1/8", 3/32" or 1/16". One collet included with tool.

PRICE $18.50 NET

Catalog No. 3008. DeLuxe Model HANDEE complete with 7 accessories: 1/8" collet, five CHICAGO Mounted Wheels, 5W211, 5B137, 5B73, 5B53, 5W160; CHICAGO Soft Rubber Polishing Wheel No. 29 mounted on No. 39 mandrel; Wheel Dressing Stone No. 204; special high speed lubricating oil and applicator for 110-120 volts, AC or DC, 25 to 60 cycles.

Catalog No. 2008. Same as above only for 220 volts, AC or DC, 25 to 60 cycles

$20.35 NET

We reserve the right to substitute accessories of equal value in all sets

Above prices net, not subject to discounts

Listed under re-examination service of Underwriters' Laboratories, Inc.

This is your assurance of safety as tested by the Underwriters' Laboratories. Also fully approved by the Ontario Hydro Commission.

FEATURES

- Quick-acting chuck.
- Precision collet chuck.
- Patented rotary switch.
- Shock-proof bakelite construction.
- Streamline design.
- No obstructions.
- Lightweight, twelve ounces.
- Convenient shape, fits hand.
- Patented protective sleeve, covers all moving parts.
- Uses over 200 different accessories.
- Trouble-free radial type seven-bar commutator.

Photo Actual Size

HERE is the ultimate in quality equipment—a practical combination that craftsmen and mechanics will welcome. The brilliant De Luxe HANDEE (same as described on Page 40), acclaimed the world over for its remarkable speed, power, versatility and long life . . . plus a complete assortment of fine accessories that assure maximum utility along with big savings in time and money. All packed in a handsome, compact steel carrying case! Truly an irresistible value . . . backed by our liberal 10-day, money-back trial offer.

WITH A COMPLETE ASSORTMENT OF ACCESSORIES included in the Ultra De Luxe Set, the HANDEE is capable of caring for every job. With this 12-ounce portable "power house," you can repair hard-to-get-at parts of machines without removing the part. Smooth off rough spots on dies, tools or any delicate mechanism. Grind, drill, polish, cut, carve, sand, saw and engrave practically all types of material with the over 300 different accessories provided. In foundries, machine-shops, tool and die plants, wherever metal is used or shaped, the HANDEE is a necessity.

As an auxiliary tool for special rush jobs where speed is essential, pattern work, knicking gears, marking and inspection, polishing hard-to-reach parts, this assortment will pay for itself many times over.

$25.00

Catalog No. 3010, complete for operation on 110 volts, 25 to 60 cycles, alternating or direct current.

Catalog No. 3011, same as above but with 26 assorted CHICAGO Mounted Wheels for industrial application only.

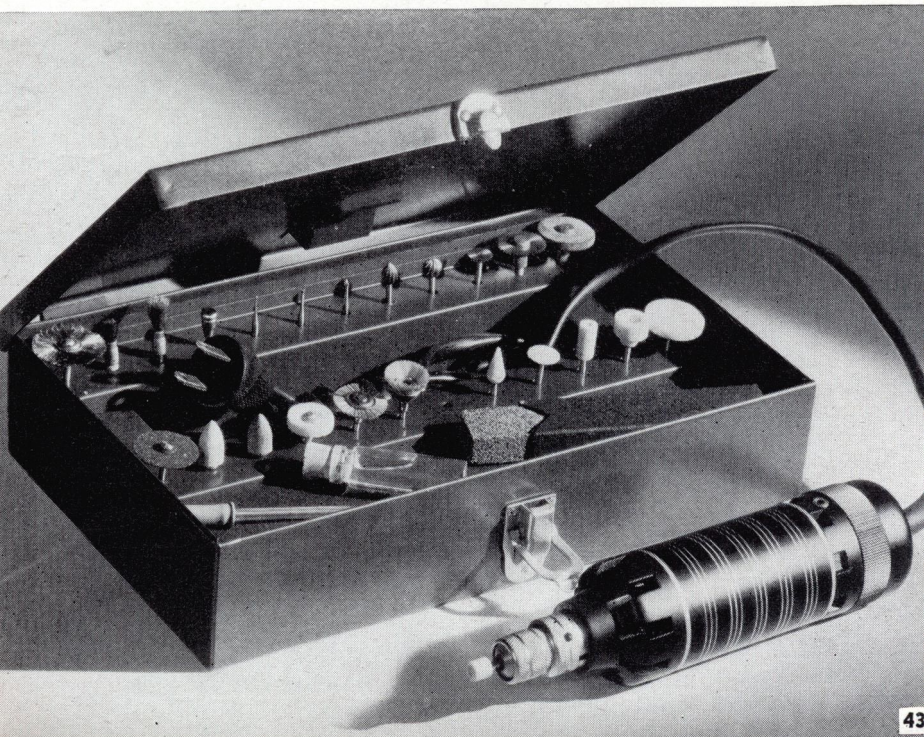
Catalog No. 2010, contains 27 assorted accessories same as catalog No. 3010 but for operation on 220 volts, Price $26.85.

Catalog No. 2011, same as catalog No. 3011 but for operation on 32 volts, Price $26.85.

ABOVE PRICES NET
NOT SUBJECT TO DISCOUNT

SET INCLUDES...

De Luxe HANDEE. Steel Carrying Case. No. 29 Rubber Polishing Wheel with No. 16 Mandrel. No. 28 Saw with No. 16 Mandrel. No. 20 Slitting Saw. No. 4935 Steel Cutter. No. 4925 Steel Cutter. No. 1 Drill. No. 5 Drill. No. 10 Drill. No. 18 Push Pin Mandrel. No. 14-S Steel Wire Cavity Brush. No. 14 Bristle Brush. No. 15 Wire Scratch Brush. No. 25 Rubber Disc with No. 17 Mandrel. No. 31 Felt Polishing Point with No. 21 Mandrel. No. 30 Rubber Polishing Point with No. 21 Mandrel. No. 13 Felt Polishing Wheel. No. 36 Drum Sander and three bands. No. 11 Disc Cleaning Brush. No. 4B53 CHICAGO Mounted Wheel. No. 4W160 CHICAGO Mounted Wheel. No. 4B73 CHICAGO Mounted Wheel. No. 4W183 Countersunk CHICAGO Mounted Wheel. No. 4W211 CHICAGO Mounted Wheel. No. 4W163 CHICAGO Mounted Wheel. No. 204, Wheel Dressing Stone. Vial of HANDEE Speed Oil. Dozen assorted sandpaper discs.



BUILT TO DO TOUGH JOBS the new HI-POWER Grinder has more than enough power and performance to do the toughest of grinding jobs. Offers triple duty service in speed, stamina and economy. For any operation beyond the capacity of the lighter weight HANDEES, the HI-POWER is your tool.

The new HI-POWER Grinder is no experiment rushed to the market to meet present conditions. It is time-tested and proven, has more engineering advances than any other tool of comparable size and price. Thousands of these efficient he-man tools have been used in many different industries during the past twelve years.

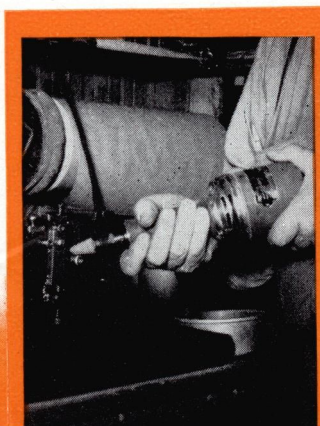
Hundreds of plants have found this triple-duty, many purpose grinder cutting both production costs and production problems. Make a trial in your own plant, test for yourself the economy and efficiency of the new HI-POWER Grinder.

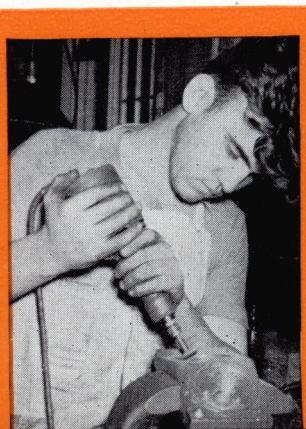
A WIDE RANGE OF ACCESSORIES have been developed for use with the new Hi-Power Grinders. Not only can you use all of the smaller accessories developed for use with the HANDEE Tool of 1001 Uses, but larger ones mounted upon 1/4" diameter shank. The Hi-Power is equipped with an interchangeable spring collet chuck having collets of 1/4" and 1/8" capacity.

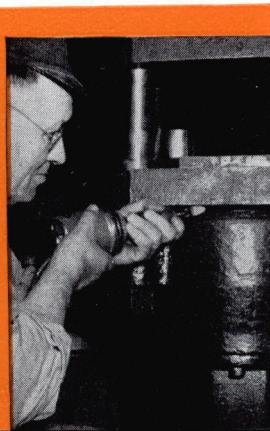
In every respect the constant duty tool is doing yeoman service in war industries on a host of different jobs. With a weight of only three pounds and a shape balanced and shaped to fit the hand, the Hi-Power delivers continuous vibrationless performance which eliminates fatigue and gets the work done on time.

They go far beyond the standards for ordinary grinders and incorporate many exclusive worth-while features. Built for jobs obviously beyond the capacity of the HANDEE . . . the HI-POWERS have been adopted by hundreds of plants and are giving day after day efficiency and performance. Tests prove lower operating costs for this many purpose tool. Easy and convenient to use. More than ample speed and power for the toughest jobs. A real time and money saver.

A TIME-SAVER FOR EVERY INDUSTRY





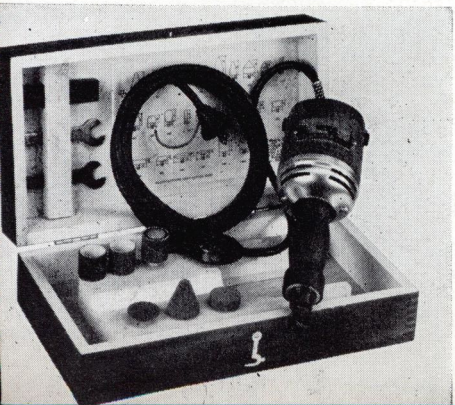


MULTIPLE TOOL EFFICIENCY...WITH SINGLE TOOL COST

HI-POWER Grinders go far beyond the standard for ordinary grinders. They bring you a definite short-cut to quickened production, greater efficiency and lower cost . . . at a time when earnings depend upon your ability to save labor . . . save time . . . reduce operating expense. They are fast, powerful and sturdy grinders built to work all day long . . . and yet so compact and convenient to use on scores of applications . . . to which rigid and other types of grinders are wholly unsuited . . . will be found for HI-POWER Grinders.

In industrial plants, pattern and die shops, foundries, workshops, garages, and other industries . . . under all conditions . . . they have won an important place in production work. Service and repairmen find the HI-POWER Grinders ideal for their repair kits.

SPECIFICATIONS—the tool is 10" overall, including chuck, with a total weight of 3 pounds. The speed is 17,000 r.p.m. with ample power to drive a wheel 2½" diameter. Included in the wooden carrying case are three CHICAGO Mounted Wheels 1 x 1" Drum Sander and extra bands, interchangeable spring collet type of chuck having a capacity of ¼" and ⅛". Bearings are precision ground of the grease-sealed type, packed with sufficient lubricant to last the life of the bearing. Housing is a sturdy casting completely insulated with cushion grips to eliminate vibration and avoid fatigue.



ACCESSORIES

A wide range of accessories are available with ¼" shank for use with the HI-POWER Grinder. Those with smaller shank give even greater efficiency when used on the HI-POWER.

We reserve the right to change accessories due to war conditions.

SPECIFICATIONS

CATALOG NO. 3031, 110-120 volts, AC or DC, 25 to 60 cycle. Universal motor 130 watts, quickly renewable brushes ..... **$38.50 NET**

CATALOG NO. 3032, 220 volts, AC or DC, 25 to 60 cycle, Universal motor otherwise same specifications as above..... **$42.00** NET

ABOVE PRICES NET, NOT SUBJECT TO DISCOUNTS

HANDEE PRECISION DRILL PRESS

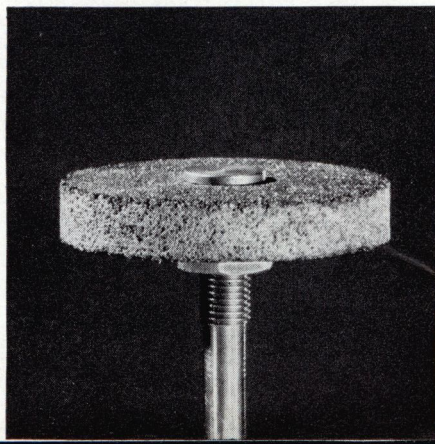
Carefully engineered, here is a real precision Drill Press that is indispensable for drilling holes 1/8" down to the very smallest. Accurately made from seasoned gray iron casting, it is powered by the De Luxe Model Handee, which is quickly removable for regular off-hand use. And the speed you require is here in abundance. The work is brought to the drill on a 3 1/2" carefully machined, ground and polished table, controlled through a hand knob working on a sensitive rack and pinion gear for extra-sensitive feed. Stop for depth of cut. Column stands 12" high. Table can be set for routing with permanent lock. Motor unit is adjustable on column to suit convenience in operation.

Available only for De Luxe Model Handees

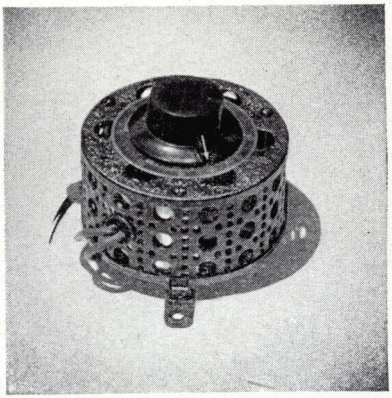
FAST CUTTING GRINDING WHEEL FOR HI-POWER GRINDER

Grinding Wheel complete with mandrel, Size 2 1/2x3/8x5/16 hole. Catalog No. 3035, Price net.....**$1.10**

Grinding Wheel only, Size 2 1/2x3/8x5/16 hole. Catalog No. 3036, Price net.....**$0.50**



ACCESSORIES FOR THE HANDEE

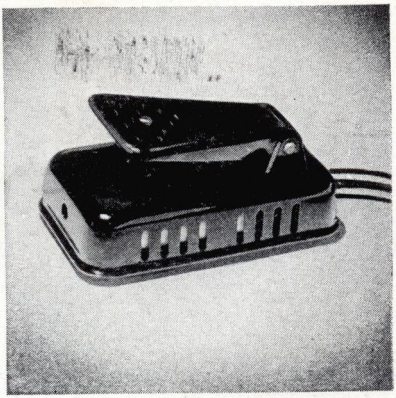


BENCH TYPE SPEED CONTROL. Can be permanently mounted to the bench and controls the speed effectively on either model Handee. Approximately 60 different speeds from a low of 300 to top speed for either tool. A quality instrument.

Catalog No. 3021 Bench Speed Control, Standard Model Handee, Net Price... **$3.50**

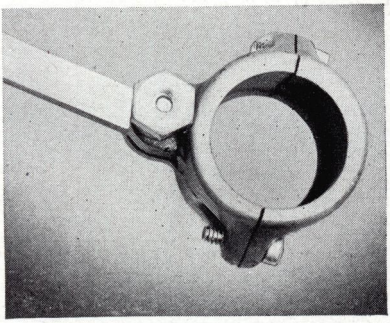
Catalog No. 3022 Bench Speed Control, DeLuxe Model Handee, Net Price.... **$3.50**

Low priced speed control, 20 speeds, socket type not illustrated, for intermittent service.
Catalog No. 3077 Net Price..... **$1.00**



FOOT SPEED CONTROL *for all Model Handees.* You can control the speed in a complete range between 300 and 25,000 r.p.m. with either model Handee. Permits full freedom of both hands for guiding instruments. Recommended for delicate and precise work. Works equally well with either model on 110 volts, AC or DC, 25 to 60 cycle current.

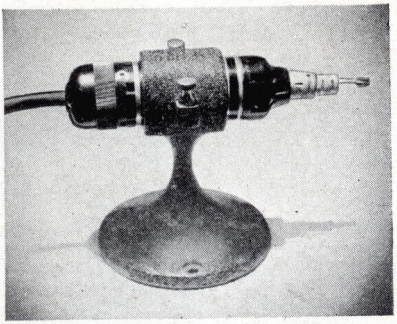
Catalog No. 3002 Net Price..... **$7.50**



TOOL POST ADAPTER. Here is a rigidly made, substantial and sturdy, professional type tool holder that will convert your DeLuxe Handee into a fine internal grinder. Fits any standard lathe. Adjustments are provided for a rigid setting so you can get accurate work. Will pay for itself in a short time. Should be in every modern shop.

Catalog No. 3003 For Standard Model Handee, Net Price..... **$2.50**

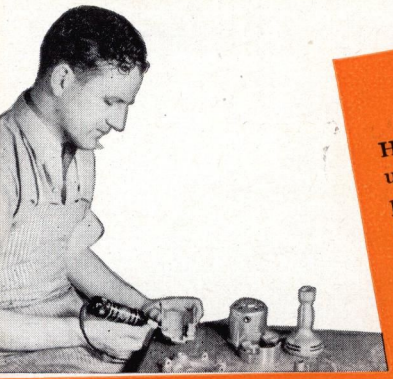
Catalog No. 3004 For DeLuxe Model Handee, Net Price..... **$2.50**



BENCH HOLDER *for all Handees.* You can convert any model Handee to a high speed polishing or carving head by mounting the tool in this sturdy holder. Collar can be screwed to the bench to give the Handee rigid mounting, allowing both hands full freedom for handling work. Tool can be removed from the holder at will.

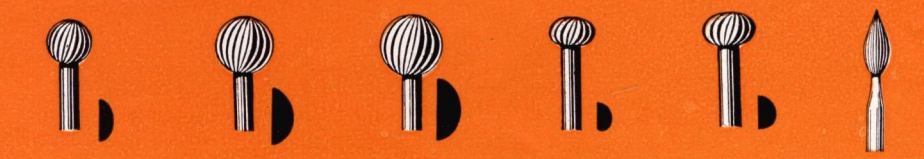
Catalog No. 3000 For Standard Model Handee, Net Price..... **$3.75**

Catalog No. 3001 For DeLuxe Model Handee, Net Price..... **$3.75**



STEEL CUTTERS

Here's a group of CHICAGO Steel Cutters mounted upon 3/32" diameter shanks. Made to the same precision limits as larger industrial cutting tools, they are accurate, will give long life and outstanding performance. All CHICAGO Steel Cutters are carefully hardened and polished for fast and free work. Ideally suited for working on soft metals, wood, plastics.



No. 4925—Popular ball-shaped cutter for cross hatching, radius carving or cleaning up radii in dies. Price, each $0.60

No. 4926 — Ball-shaped cutter that gives clear, clean cuts with rapid chip clearance. Price, each .$0.60

No. 4927 — Our largest ball-shaped cutter on 3/32" shank. Recommended for free-hand use wherever radii are required. Price, each $0.60

No. 4930—Cross-hatching cutter ideal for a wide variety of work. Rapid chip clearance keeps the cutter clean at all times. Price, each $0.60

No. 4931 — For radii and round groove work, fast cutting. Can be accurately controlled. Price, each $0.60

No. 912 — Our largest flame-shaped finishing bur. Widely cut teeth, does an excellent job for off-hand engraving. Price, each, ,$0.40

No. 4932 — For roughing and removing material rapidly on radii or cross-hatching work. Price, each $0.60

No. 4935 — Very popular flame-shaped cutter for rounding corners, beveling and oval cuts. Price, each $0.60

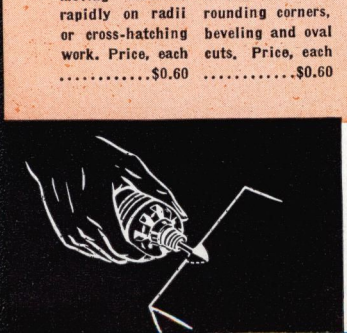
No. 4936—A flame-shaped cutter with a slightly different cut. Same rapid cutting action. Price, each $0.60

No. 4937—Faster cutting and larger bodied flame-shaped cutter, especially good for off-hand beveling and rounding work. Price, each $0.60

No. 4938 — Our largest flame-shaped cutter, mounted on 3/32" dia. Preferred for roughing and removing material rapidly. Price, each $0.60

No. 6210—Largest ball-shaped finishing bur we offer. Will mark quickly with clear cut line on nearly all materials. Price, each $0.4

All Cutters Made In the United States of America



CHICAGO STEEL CUTTERS

No. 636—Variety of different cuts can be made with this finishing bur, depending upon angle at which it is held to the work. Price, each $0.40

No. 4939—Beveling and carving cutter ideal for intricate work on patterns. Gives smooth even cut. Price, each..$0.60

No. 4940—Another detail cutter generally used for roughing, breaking corners on light metals or wood. Price, each..$0.60

No. 4941—Gouging cutter for corner work and roughing out. Fast and free cutting, with ample chip clearance. Price, each $0.60

No. 4945—Detail cutter of the elongated type. Will knock down square corners very rapidly. Leaves smooth finish. Price, each $0.60

No. 4946—Roughing elongated cutter for fast removal of material. Ample chip clearance. Price, each $0.60

No. 92 — Very popular flame-shaped finishing bur for hair line engraving on all materials except hardened steel and glass. Price, each $0.40

No. 4947 — The largest elongated cutter mounted on 3/32" dia. shank. Used only for roughing work. Price, each..$0.60

No. 4950—Widely used for feature work in carving or wherever accuracy and perfect control are required. Price, each..$0.60

No. 4951 — Offhand roughing cutter. Has advantage of close, accurate control on detail work. Price, each..$0.60

No. 4955 — This dual-purpose cutter works fine in soft metals and all types of wood. Close control for accurate detail work. Price, each $0.60

No. 4956—A more rapid material-remover, with accurate control. Makes a variety of cuts depending on angle held to work. Price, each $0.60

No. 6110—General utility-shaped finishing bur, excellent for fine detail work. Price, each..$0.40

No. 4960—Roughing cutter very popular on ripping work. Can be used for a straightaway cut. Price, each..$0.60

No. 4962 — Often used in Shaper Table for rip cut on straight shaping. Price, each $0.60

No. 4961 — An ideal roughing cutter for rapid removal of soft metals and all types of wood. Price, each..$0.60

No. 64 — Small finishing bur, cylindrical type. Has extremely fine teeth for light, accurate detail work in wood, plastics or light metals. Price, each..$0.40

No. 624—For fine, hair-line engraving on all classes of material except hardened steel, we recommend this finishing bur. Price, each..$0.40

All Cutters Made In the United States of America

CHICAGO STEEL CUTTERS

CHICAGO STEEL CUTTERS 1/8" SHANK

These cutters are not intended to be used on hardened steel or other materials on high tensile strength. On this type of material, which includes glass, use CHICAGO Mounted Wheels shown on pages 6 to 34. Cutters in this group are carefully machined and polished, made to the same high standard of quality as other HANDEE accessories, designed to take full advantage of the high speed of HANDEES and other portable equipment. They can be used on slow speed equipment, but will give correspondingly less efficiency.

No. 5901—A very small ball shaped cutter for line engraving and light detail work. Price, each..$0.60

No. 5903—Ball shaped cutter for grooving, radii work. Used on wood and light metals wherever a rounded effect is desired. Price, each $0.60

No. 5900—One of the most popular of the ball-shaped cutters. Ample chip clearance gives fast, free, rapid cutting action. Price, each $0.60

No. 5905—For semi-roughing and heavier grooving work on soft metals and wood. Machined and polished. Price, each..$0.85

No. 5904—Fast cutting ball shaped cutter, ideal for roughing. A great time and money saver. Wide chip clearance. Price, each $0.85

No. 5902 — For cross-hatching, radii work and grooving, this cutter is ideal. Teeth designed for rapid, clean free cutting. Price, each $0.85

No. 5906—Our smallest end mill type of cutter, widely used for detail, touch-up work in die sinking, shaping etc. Price, each..$0.60

No. 5908—Teeth of this end mill type cutter are carefully ground and polished for long life and free cutting. Price, each..$0.60

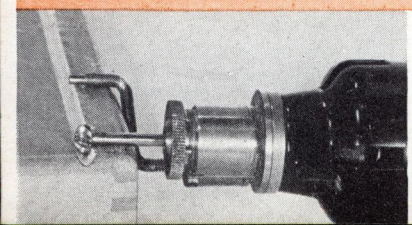
No. 5910 — Our largest end mill type of cutter for rapid chip clearance. Makes a variety of different cuts. Price, each..$0.85

No. 5911—Small saw type of cutter grand for light detail inlaying, angle cutting or scoring. Price, each $0.60

No. 5912—A faster cutter with greater depth of cut. Widely used for undercutting commutators, scoring, etc. Price, each..$0.85

No. 5913—Depth of cut on this cutter can be regulated by using shank as depth gauge. Saws, undercuts, inlays. Price, each..$1.00

All Cutters Made In the United States of America



CHICAGO STEEL CUTTERS

No. 5914—End mill type of cutter for angle cutting, undercutting and mold work, etc. Price, each $0.85

No. 5915—This cutter is exceptionally fast-cutting and ideal for roughing. Ground to a taper, it removes material in a hurry. Price, each $0.85

No. 5918—A smaller countersinking cutter for nearly all materials except hardened steel. Leaves a smooth, clean cut. Useful in simulating chip carving. Price, each..$0.85

No. 5917—A beveling and carving cutter. Ideal for roughing on wood or metals, unbeatable in roughing plastics. Price, each..$0.85

No. 5907—This is the cutter to use for rapidly roughing out designs in all types of plastics. Price, each $0.85

No. 5909—This cutter has wide utility for it makes a number of different type cuts depending upon the angle at which it is held to the work. Price, each..$0.85

No. 5919—A V-type of grooving cutter widely used in carving to simulate fur on animals, leaves on trees, etc. Price, each $0.85

No. 5898—Barrel-type of cutter, especially designed with rapid chip clearance, generally used only for roughing. Price, each..$0.85

No. 5899—Engravers prefer this type of cutter for smoothing down radii or working bead work. Price, each $0.85

No. 5920—A V-groover that is exceptionally fast-cutting used for similar applications as No. 5919. Price, each..$0.85

No. 5921—Countersinking cutter that is a wonder. Fast, free and cool-cutting, with wide chip clearance. Price, each..$0.60

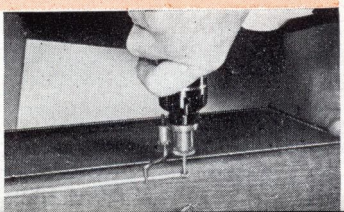
No. 5916—This taper cutter is ideal for spotting, counter-sinking in wood or light metals. Price, each..$0.85

These miniature cutters are real helpmates on many jobs. Indispensable to the die, tool and pattern maker. Work equally well on the highest speed equipment. Sturdy 1/8" shanks are adequate for all sizes and shapes of cutters shown on pages 52 and 53. While these cutters can be re-sharpened, the detail and time involved usually make this operation uneconomical. *All Cutters Made In the United States of America.*

No. 5922—A special purfing tool that is ideal for purfling, inlaying, undercutting. Makes cut 1/8" deep and 1/16" wide. Price, each.$1.25

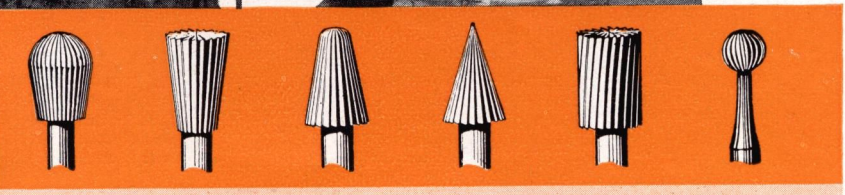
No. 5923—Purfling tool. Makes a cut 1/16" deep and 1/16" wide. Popular for violin work. Price, each $1.25

No. 5924—Our fastest, coarsest roughing cutter. Indispensable for roughing out wood carvings, plastics and patterns. Price, each.$1.25

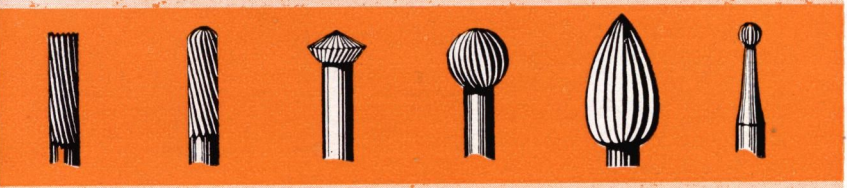


CHICAGO STEEL CUTTERS

Designed for operation on the Hi-Power Grinder and other equipment larger than either the Standard or DeLuxe Model Handee these cutters are made from the finest quality steel, carefully machined and ground to precise limits. They are in every respect precision cutting tools. Widely used in die shops, pattern shops and by wood sculptors they work equally well in wood or metals of low tensile strength. In roughing dies that are not hardened they will be found to be great time and money savers. Steel cutters have teeth designed for operation with high speed equipment and always provide rapid chip clearance.



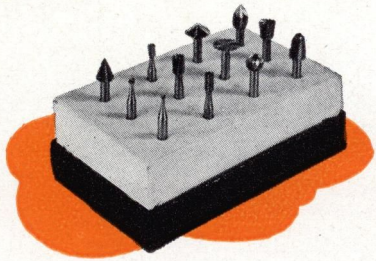
No. RF-203 $2.50 each	No. RF-220 $2.50 each	No. RF-223 $2.50 each	No. RF-222 $2.50 each	No. RF-219 $2.50 each	No. RF-503 $2.00 each



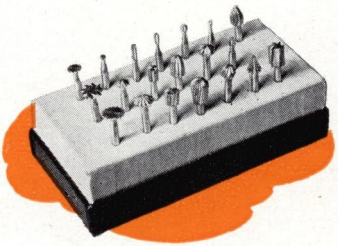
No. RF-151 $2.00 each	No. RF-152 $2.50 each	No. RF-208 $2.50 each	No. RF-159 $2.50 each	No. RF-224 $2.00 each	No. RF-157 $1.80 each

ABOVE PRICES ARE NET, NOT SUBJECT TO DISCOUNT

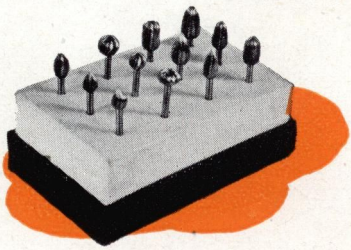
CHICAGO STEEL CUTTER SETS



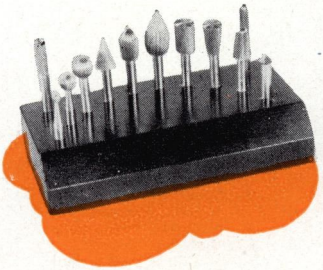
Catalog No. 3041—Especially selected set of the most popular CHICAGO Steel Cutters mounted on 1/8" steel shank. Includes Nos. 5900, 5901, 5904, 5906, 5908, 5910, 5913, 5914, 5915, 5916, 5917 and 5919. Price, set. Net..... **$9.00**



Catalog No. 3060—For the craftsman who wishes the most comprehensive set of steel cutters and a real value. Includes Nos. 5900, 5901, 5902, 5904, 5906, 5908, 5909, 5910, 5911, 5912, 5913, 5914, 5915, 5916, 5917, 5919, 5920, 5921, 5922, 5923. Price, set. Net..... **$15.00**

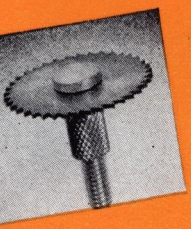


Catalog No. 3040—Very popular group of CHICAGO Steel Cutters mounted on 3/32" shank. Set includes Nos. 4925, 4927, 4932, 4935, 4938, 4939, 4941, 4945, 4947, 4951, 4955 and 4961.
Special value. Net..... **$7.00**

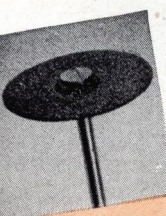


Catalog No. 3042—Special set of 1/4" shank steel cutters. Every shop should have a set of these 1/4" shank steel cutters. Every day use will be found for each and every size and shape for they have been chosen as the most popular by expert mechanics the world over. Special value. Net..... **$27.00**

SAWS

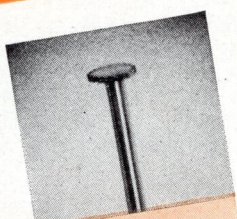


For high speed operation with the Handees on plastics, wood and soft metals. Catalog No. 27* $\frac{3}{4}$" dia. .023" thick, $\frac{1}{8}$" hole. Used with mandrel No. 16. Price each, saw only . . . 75c. Also Catalog No. 28* for detail inlaying, purfling and undercutting $\frac{3}{4}$" dia. .002" thick with $\frac{1}{8}$" hole. Used on mandrel No. 16. Price each, saw only..75c

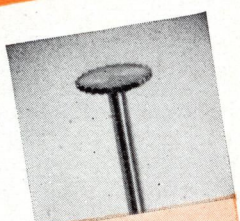


Catalog No. 25. A thin rubber cutting disc $\frac{7}{8}$" dia. $\frac{64}{64}$" thick, $\frac{5}{64}$" hole. Used with mandrel No. 17 or 17A. Cuts any material, even glass. Price 5c each, 35c per dozen.

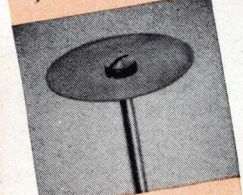
Catalog No. 26*. For precision work. $\frac{1}{2}$" dia. saw .023" thick with $\frac{1}{8}$" hole. Mandrel head serves as automatic depth gauge. Ideal for undercutting commutators. Used with mandrel No. 16. Price each, saw only....60c



Catalog No. 19. Undercutting saw, permanently mounted on mandrel $\frac{3}{32}$" dia. For slitting, undercutting, radial chassis or light detail inlaying. $\frac{1}{4}$" dia. .033" thick. Price, each . . . 75c.



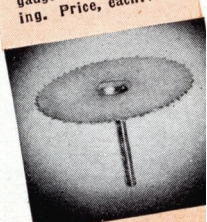
Catalog No. 20. Permanently mounted saw with a mandrel dia. of $\frac{3}{32}$". On larger commutators this $\frac{3}{8}$" dia. .033" thickness saw is recommended. Shank serves as depth gauge in wood-working. Price, each..75c



Catalog No. 3018. Extremely thin saw. Cuts light materials with lightning speed. Indispensable to model builders. $\frac{7}{8}$" dia. only .005" thick with $\frac{5}{64}$" hole. Used with mandrel No. 17 or 17A. Price, saw only...50c

Catalog No. 3016. Larger dia. saw, recommended for use with Hi-Power and Handees. Works on wood or light metals. $1\frac{1}{2}$" dia. .023" thick with $\frac{1}{4}$" hole. Used with mandrel No. 3014. Price, saw only..$1.25

Catalog No. 3017. Largest saw recommended for Hi-Power or Handees. 2" dia. .032" thick, $\frac{1}{4}$" hole. Suitable for wood, plastics or light metals. Used with mandrel No. 3014. Price, saw only . . . $1.50.



Catalog No. 5025. Stagger tooth saw for the Handee Workshop. Cuts wood and plastics remarkably fast. Dia. 2" .025" thick, $\frac{1}{4}$" hole. Used with mandrel No. 3014. Price, saw only $1.50

Catalog No. 3019. Rubber cutting disc, $1\frac{1}{2}$" dia. $\frac{1}{16}$" thick, with $\frac{1}{8}$" hole. Used with mandrel No. 16. Indispensable for model making, smoothing, cutting or grinding. Price, each...40c

Handee Saws are made to the same high standard of quality as all our accessories. Only the finest quality steel carefully ground and polished is used. Manufactured in their entirety in the United States. You can purchase these accessories with absolute confidence for satisfaction is guaranteed.

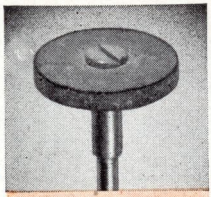
***Ground and polished, concave both sides for fast, free cutting.**

POLISHING

These new polishing wheels will save you many hours of work in getting smooth surfaces on metals or plastics.

NOTE

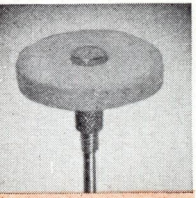
Due to the shortage of rubber, Catalog Nos. 29, 30 and 41 are subject to restriction at any time, and your purchase order must be covered by priority preference rating.



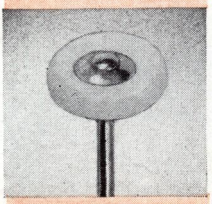
Catalog No. 29. Most popular "CHICAGO" Soft Rubber Polishing Wheel used with the Handees. (See description of new polishing material, Page 56.) Dia. 7/8", thickness 1/8", hole 1/8". Used on mandrels No. 16 or 39. Price, Wheel only 20c

Catalog No. 30. Wide purpose rubber polishing tip of "CHICAGO" Soft Rubber Polishing Bond. Gives high polish on any metal. For mandrel No. 21 or 21A. Price, tip, only, each...15c

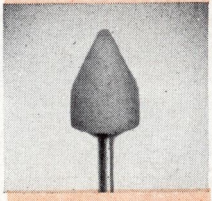
Catalog No. 41. All-purpose soft rubber polishing tip. 1" long. Often used for rough-finishing gems. Use mandrel No. 3013 or 3013A for mounting. Price, tip only, each 15c



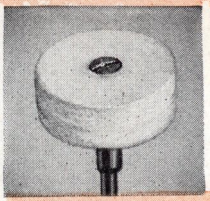
Catalog No. 33. Felt wheel for superlative finish on virtually all materials. Used with Handee Polishing Compound. Dia. 1", thickness 1/8", hole 1/8". Used with mandrel No. 16 or 39. Wheel only, price, each . . . 20c.



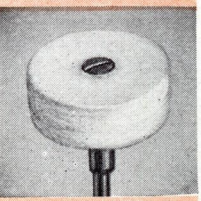
Catalog No. 13. Felt polishing wheel permanently mounted on 3/32" dia. mandrel. Only 5/8" dia., ideal for hard-to-get-at-places. Polishes more efficiently with Handee Polishing Compound.
Price, each 20c



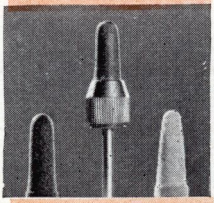
Catalog No. 31. Small felt polishing tip. Uses mandrel No. 21 or 21A. Invaluable for delicate and intricate work. Handee Polishing Compound recommended for use with this wheel. Price, tip only, each 20c



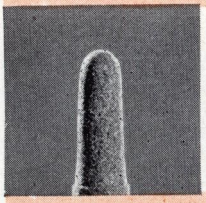
Catalog No. 56. Felt wheel 1" diameter x 1/4" thick for all types of polishing, mounts on mandrel No. 16 or 39.
Price, felt only, 30c



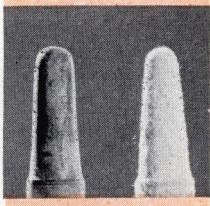
Catalog Nos. 57, 58, and 59. Small rag buffs are ideal for use with Handee and other high speed portable equipment. Available in three sizes for mounting upon mandrels No. 39 and No. 17.
Price, each.....$0.25



Catalog No. 3050. Handee Grinding and Polishing Kit for tools, dies, jigs, fixtures, etc. Includes quick-change chuck mandrel No. 3051; CHICAGO Polishing Point, felt polishing point and grinding point. 1/8" mandrel. Price, complete.$2.00

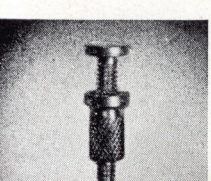


Catalog No. 3053. Grinding Point for quick-change chuck mandrel No. 3051 shown at left. Molded to fit the chuck, a real time and money saver.
Price, each.....$0.40

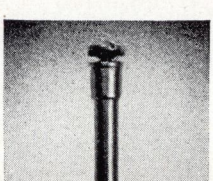


Catalog No. 3052. Felt polishing tip for use with quick-change chuck mandrel No. 3051. Price, each, $0.35
Catalog No. 3054. CHICAGO Polishing Point for use with quick-change chuck mandrel No. 3051. Price, each.....$0.25

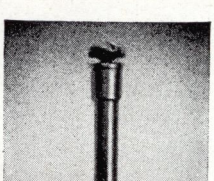
MANDRELS



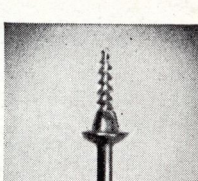
Catalog No. 16. Precision made from the finest steel. Used with accessories Nos. 26, 33, 27, 28, 29, 3019 and 49. For accessories having 1/8" hole dia. of shank is 3/32". Price, each 40c



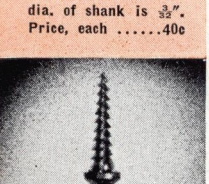
Catalog No. 17. Screw type mandrel for accessories with 5/64" hole, including catalog Nos. 25, 81, 82, 83, 84 or No. 3018. With 3/32" diameter shank.
Price, each 15c



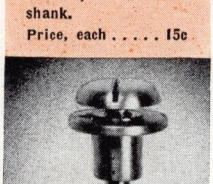
Catalog No. 17-A. Screw type mandrel for accessories with 5/64" hole, including catalog Nos. 25, 81, 82, 83, 84 or No. 3018. With 1/8" diameter shank.
Price, each 40c



Catalog No. 21. Special shoulder type screw mandrel for mounting rubber polishing points No. 30 and No. 31. With 3/32" dia. shank. Price, each.... 45c. Catalog No. 21-A. Same, with 1/8" dia. shank. Price, each 45c



Catalog No. 3013. You can use this special long screw shoulder-type mandrel for mounting soft rubber polishing point No. 41. With 3/32" dia. shank. Price, each ... 60c. Catalog No. 3013-A. Same, with 1/8" dia. shank.
Price, each 60c

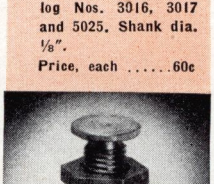


Catalog No. 3014. Special mandrel with screw top for accessories having 1/4" dia. hole. Used with Catalog Nos. 3016, 3017 and 5025. Shank dia. 1/8".
Price, each 60c

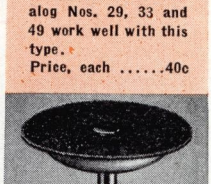
Catalog No. 39. Heavy 1/8" dia. shank screw-type mandrel. Used with accessories having 1/8" hole. Catalog Nos. 29, 33 and 49 work well with this type.
Price, each 40c

Catalog No. 40. Nut type mandrel for accessories with 5/32" hole. Shank 1/8" dia. Widely used by craftsmen for mounting many different accessories.
Price, each 40c

Catalog No. 3039. Special mandrel for close quarter work. 3/8" head for accessories with 5/16" hole. Small knurled 3/8" retaining nut. 1/4" shank.
Price, each 75c



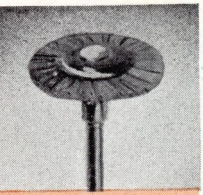
Catalog No. 3015. Wheel adapter mandrel for use with Hi-Power Grinder only. You can use wheels up to 2 1/2" dia. not exceeding 1/2" in thickness. Shank 1/4" dia.
Price, each 60c



Catalog No. 112. New type mandrel for mounting discs from smallest to 1 1/4" diameter. Gives rigid backing to disc. Used with sanding discs Nos. 22, 46, 47, 48, 71, 72, 73. Available only on 1/8" dia. shank.
Price, each.....60c

Mandrels for every type of accessory and purpose are here illustrated. Use them in your portable tools with assurance that you are getting the best money can buy. Like all HANDEE *materials, guaranteed to give you long, trouble-free service.*

BRUSHES



Catalog No. 11. Easy-to-use bristle type brush ½" dia. for cleaning, removing rust and many other applications. Permanently mounted on 3/32" shank.
Price, each 20c

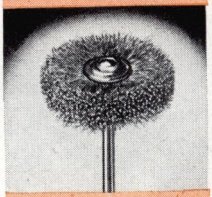
Catalog No. 12. Cup-shaped bristle cleaning brush. Reaches hard-to-get-at places with ease. Permanently mounted on 3/32" dia. shank for convenience.
Price, each . . . 20c.

Catalog No. 12-S. A wire cup cleaning brush for cleaning molds, rough from steel parts, etc., Permanently mounted on 3/32" dia. mandrel, it has wide utility for variety of applications.
Price, each 75c

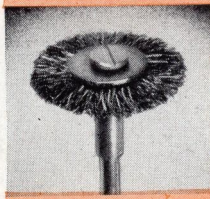
Catalog No. 14. Bristle-type cavity cleaning brush ¼" dia. with bristles extending 5/8" from the base. Ideal for deep cavities and hard to reach places. Permanently mounted on 3/32" dia. shank.
Price, each 20c

Catalog No. 14-B. Bronze wire brush, popular with gunsmiths, for all types of cleaning, reload, ferreling, etc. Brush ¼" dia. Wire extends 3/8" from base of brush. Permanently mounted on 3/32" dia. shank. Wire .005".
Price, each 40c

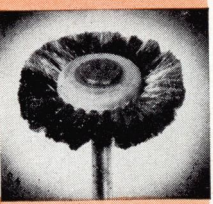
Catalog No. 14-S. Same as 14-B ¼" dia. with steel wire .005" extending 3/8" from base. For satin-finishing model work, etc. Permanently mounted on 3/32" dia. shank.
Price, each . . . 40c.



Cat. No. 15. Wire scratch brush. Wire .005. Brush 1" dia. Mtd. on 3/32" dia. shank. Price, each .50c
Cat. No. 15A. 1/8" dia. shank. Pri. ea. 60c
Cat. No. 15½. Heavier scratch brush. Wire .005. Brush 1" dia. 3/16" thick. Mtd. on 3/32" dia. shank.
Price, each 75c



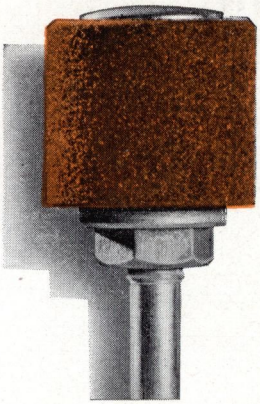
Catalog No. 49. When you need an extra-stiff wire brush order this type. Mount it on mandrel No. 39 or 16. Brush 1" dia. Wire .0075". Can be used on all Handees and the Hi-Power.
Price, each . . . $1.00.



Catalog No. 3012. This 2" dia. brush is for use with the Hi-Power. Ideal for giving a satin finish, cleaning up, etc. Comes complete with ¼" dia. mandrel and wire used is .0025".
Price, each . . . $1.60.

INDUSTRY RECOMMENDS

The wire brushes shown on this page are available only in the specifications given. Under present conditions, no deviation can be made in sizes and shapes. In the event you have a special cleaning problem and do not here find what you require, lay the details before us, and we will be happy to give you the benefit of our experience. For further cleaning accessories see CHICAGO Sanding Drums and Bands, pages 60 through 62.



DRUM SANDERS & BANDS

Chicago Abrasive Drum Sanders and Bands give an ideal smooth fine finish to either wood or metal. The bands are of lapless construction, can be run in either direction. The edges will not ravel. Drum sanders are available in a wide variety of sizes. The bands can be quickly applied. They are available in coarse, medium or fine.

DRUM SANDERS

Catalog No.	Size	Diameter Shank	Price Each, Net
36	1/4″ x 1/2″	3/32″	$1.00
36-A	1/4″ x 1/2″	1/8″	1.00
34	3/8″ x 1/2″	3/32″	1.00
34-A	3/8″ x 1/2″	1/8″	1.00
44-A	1/2″ x 1/2″	3/32″	1.00
44	1/2″ x 1/2″	1/8″	1.00
1212	1/2″ x 1/2″	1/4″	1.00
1234	1/2″ x 3/4″	1/4″	1.00
121	1/2″ x 1″	1/4″	1.00
23	3/4″ x 1/2″	3/32″	1.00
23-A	3/4″ x 1/2″	1/8″	1.00
3412	3/4″ x 1/2″	1/4″	1.00
3434	3/4″ x 3/4″	1/4″	1.00
341	3/4″ x 1″	1/4″	1.00
112	1″ x 1/2″	1/4″	1.00
134	1″ x 3/4″	1/4″	1.00
11	1″ x 1″	1/4″	1.50
50*	1″ x 1″	1/4″	1.50
1122	1-1/2″ x 1/2″	1/4″	1.50
1123	1-1/2″ x 3/4″	1/4″	1.50
1121	1-1/2″ x 1″	1/4″	1.50
1124	1-1/2″ x 1-1/2″	1/4″	1.50
212	2″ x 1/2″	1/4″	1.50
234	2″ x 3/4″	1/4″	1.50
21	2″ x 1″	1/4″	1.50
2112	2″ x 1-1/2″	1/4″	2.00

*For use with Hi-Power Grinder only.

PRICES AVAILABLE ON TYPE FOUR, TYPE THREE AND ADAPTERS WITH ½" SPINDLES. ASK FOR BULLETIN F-1990.

CHICAGO ABRASIVE BANDS

LIST PRICES PER 100 BANDS

Intermediate Diameters and Widths Take Next Higher List

GRITS — Symbol / Mesh		2/0 & Finer 100 & Finer	0 80	½ 60	1 50	1½ 40	2 36	2½ 30	3 24
Dia. or Length	Widths								
1/4" to 5/16"	½"	$2.60	$2.60	$2.60	$2.60	$2.60	$2.60	$2.60	$2.60
	1"	2.65	2.65	2.65	2.65	2.70	2.70	2.70	2.70
1" Length	1½"	2.90	2.90	2.95	2.95	2.95	3.00	3.00	3.05
	2"	3.85	3.90	3.90	3.95	3.95	4.00	4.00	4.05
	2½"	4.85	4.85	4.90	4.90	4.95	4.95	5.00	5.05
	3"	5.80	5.80	5.85	5.90	5.90	5.95	6.00	6.05
3/8" to 5/8"	½"	2.65	2.65	2.65	2.70	2.70	2.70	2.70	2.75
	1"	2.80	2.80	2.80	2.85	2.85	2.90	2.90	2.95
2" Length	1½"	3.10	3.15	3.15	3.20	3.25	3.30	3.30	3.35
	2"	4.15	4.15	4.20	4.25	4.30	4.35	4.40	4.45
	2½"	5.15	5.20	5.25	5.30	5.40	5.45	5.50	5.55
	3"	6.20	6.25	6.30	6.40	6.45	6.55	6.60	6.70
3/4" to 15/16"	½"	2.75	2.75	2.75	2.80	2.80	2.80	2.85	2.85
	1"	2.90	2.95	3.00	3.00	3.05	3.10	3.10	3.15
3" Length	1½"	3.30	3.35	3.40	3.45	3.50	3.55	3.60	3.70
	2"	4.40	4.45	4.55	4.60	4.65	4.75	4.80	4.90
	2½"	5.50	5.55	5.65	5.75	5.80	5.90	6.00	6.10
	3"	6.60	6.65	6.80	6.85	6.95	7.10	7.20	7.35
1" to 1 1/4"	½"	2.80	2.80	2.85	2.85	2.90	2.90	2.95	2.95
	1"	3.05	3.10	3.15	3.20	3.25	3.30	3.35	3.40
	1½"	3.50	3.55	3.65	3.70	3.75	3.85	3.90	4.00
4" Length	2"	4.70	4.75	4.85	4.90	5.00	5.10	5.20	5.35
	2½"	5.85	5.90	6.05	6.15	6.25	6.40	6.50	6.65
	3"	7.00	7.10	7.25	7.35	7.50	7.65	7.80	8.00
1 3/8" to 1 1/2"	½"	2.90	2.90	2.95	2.95	3.00	3.00	3.05	3.10
	1"	3.20	3.25	3.30	3.35	3.40	3.50	3.55	3.60
	1½"	3.75	3.80	3.85	3.95	4.05	4.15	4.25	4.35
5" Length	2"	4.95	5.05	5.15	5.25	5.35	5.50	5.60	5.75
	2½"	6.20	6.30	6.40	6.55	6.70	6.85	7.05	7.20
	3"	7.40	7.50	7.70	7.85	8.00	8.20	8.40	8.60
1 5/8" to 1 7/8"	½"	2.95	3.00	3.00	3.05	3.10	3.10	3.15	3.20
	1"	3.35	3.40	3.45	3.55	3.60	3.70	3.75	3.85
	1½"	3.95	4.00	4.10	4.20	4.30	4.45	4.55	4.65
6" Length	2"	5.25	5.30	5.45	5.55	5.70	5.85	6.00	6.20
	2½"	6.50	6.65	6.80	6.95	7.15	7.35	7.55	7.70
	3"	7.80	7.95	8.15	8.35	8.55	8.80	9.00	9.25

For 2" to 3½" Diameters Inclusive See Following Page

ABOVE PRICES SUBJECT TO DISCOUNT

CHICAGO ABRASIVE BANDS

LIST PRICES PER 100 BANDS

Intermediate Diameters and Widths Take Next Higher List

GRITS Symbol / Mesh		2/0 & Finer 100 & Finer	0 80	½ 60	1 50	1½ 40	2 36	2½ 30	3 24
Dia. or Length	Widths								
2″ to 2 3/16″	½″	$3.05	$3.05	$3.10	$3.15	$3.20	$3.25	$3.25	$3.30
	1″	3.50	3.55	3.65	3.70	3.75	3.85	3.95	4.05
	1½″	4.15	4.20	4.35	4.45	4.60	4.70	4.85	5.00
7″ Length	2″	5.50	5.60	5.75	5.90	6.05	6.25	6.45	6.65
	2½″	6.85	7.00	7.20	7.35	7.55	7.80	8.05	8.25
	3″	8.20	8.35	8.60	8.80	9.05	9.35	9.65	9.90
2¼″ to 2½″	½″	3.10	3.15	3.20	3.25	3.30	3.35	3.35	3.40
	1″	3.65	3.70	3.80	3.85	3.95	4.05	4.15	4.30
	1½″	4.35	4.45	4.55	4.70	4.85	5.00	5.15	5.30
8″ Length	2″	5.75	5.90	6.05	6.25	6.40	6.60	6.85	7.05
	2½″	7.20	7.35	7.55	7.80	8.00	8.25	8.55	8.80
	3″	8.60	8.75	9.05	9.30	9.60	9.90	10.25	10.55
2 5/8″ to 2¾″	½″	3.20	3.25	3.25	3.35	3.40	3.45	3.50	3.55
	1″	3.75	3.80	3.95	4.05	4.15	4.25	4.35	4.50
	1½″	4.55	4.65	4.80	4.95	5.10	5.30	5.45	5.65
9″ Length	2″	6.05	6.15	6.40	6.55	6.75	7.00	7.25	7.50
	2½″	7.50	7.70	7.95	8.20	8.45	8.75	9.05	9.35
	3″	9.00	9.20	9.55	9.80	10.10	10.45	10.85	11.20
2 7/8″ to 3″	½″	3.25	3.30	3.35	3.40	3.50	3.55	3.60	3.65
	1″	3.90	3.95	4.10	4.20	4.30	4.45	4.60	4.70
	1½″	4.75	4.85	5.05	5.20	5.40	5.60	5.75	5.95
10″ Length	2″	6.30	6.45	6.70	6.90	7.10	7.40	7.65	7.95
	2½″	7.85	8.05	8.35	8.60	8.90	9.20	9.55	9.85
	3″	9.40	9.60	10.00	10.30	10.65	11.05	11.45	11.85
3½″	½″	3.35	3.40	3.45	3.50	3.60	3.65	3.70	3.75
	1″	4.05	4.10	4.25	4.40	4.50	4.65	4.80	4.95
	1½″	4.95	5.10	5.25	5.45	5.65	5.90	6.05	6.30
11″ Length	2″	6.60	6.75	7.00	7.20	7.45	7.75	8.05	8.35
	2½″	8.20	8.40	8.70	9.00	9.35	9.70	10.05	10.40
	3″	9.80	10.05	10.45	10.75	11.15	11.60	12.05	12.50

ABOVE PRICES SUBJECT TO QUANTITY DISCOUNT

EXTRA PARTS FOR ALL MODEL HANDEES

In ordering extra parts for your HANDEE and HI-POWER Grinder, always give model, serial number, and if possible, date purchased. The following is not a complete repair part list, but one will be furnished for any model HANDEE upon request.

STANDARD MODEL HANDEE

Catalog No. 3020. Grip sleeve. Fits all Standard Model Handees only **$1.50**

Catalog No. 3026. 3/32" spring collet ..... **.60**

Catalog No. 3027. 1/8" spring collet ..... **.60**

Catalog No. 3029. Spring collet chuck with one 1/8" collet... **1.75**

Catalog No. 3030. Spring collet chuck with one 3/32" collet.. **1.75**

Catalog No. 3003. Tool Post Adapter **2.50**

DE LUXE MODEL HANDEE

Catalog No. EP50. Pat. Protective Sleeve, 1940 type..... **$1.00**

Catalog No. 3023. 1/16" spring collet. Jaws close down completely, gripping even hair line drills ..... **.75**

Catalog No. 3024. 3/32" spring collet ..... **.75**

Catalog No. 3025. 1/8" spring collet ..... **.75**

Catalog No. 3135. Steel carrying case without accessories for DeLuxe Model Handee identical to that shown on Page 41 ..... **1.50**

Catalog No. 3010. Steel carrying case with 26 accessories to convert DeLuxe Model Handee into Ultra DeLuxe **7.50**

Catalog No. 3004. Tool Post Adapter **2.50**

HI-POWER GRINDER

Catalog No. 3028. 1/4" capacity collet chuck for Hi-Power Grinder complete with wrenches **$4.50**

Catalog No. 3129. 1/4" collet for Hi-Power Chuck..... **.75**

Catalog No. 3130. 1/8" collet for Hi-Power Chuck..... **.75**

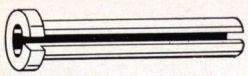
HANDEE SPEED DRILLS

Drills with lightning speed in wood, soft metals, Bakelite, in fact everything but hardened surfaces. Ideal with any model HANDEE for shallow drilling. Available only on 3/32" shanks.

SPECIFICATIONS AND PRICE HANDEE SPEED DRILLS

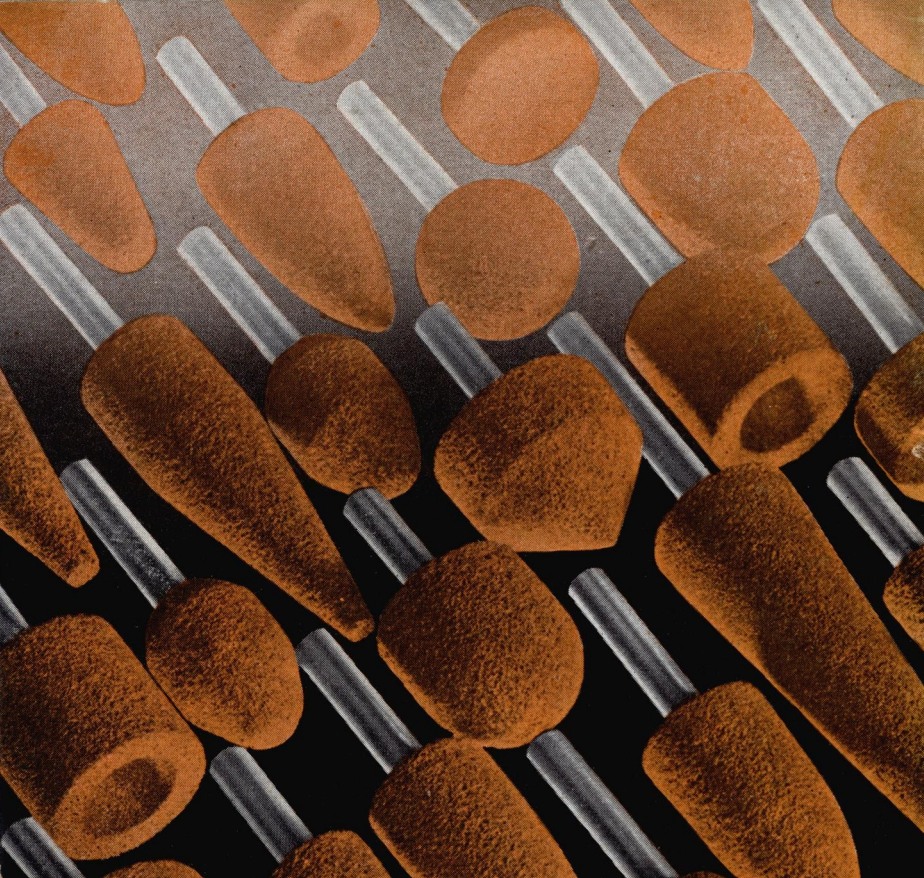
No.	1	2	3	4	5
Dia...	.035	.037	.040	.045	.050
No.	6	7	8	9	10
Dia...	.055	.065	.070	.080	.090

Net price each..... **30c**



REDUCING COLLET

Catalog No. 32—Reducing Collet 1/8", 3/32", for use with 3/32" shank accessory, adopting them to fit 1/8" chuck, any model. HANDEE each..... **25c**



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SINCE Chicago 1895

CHICAGO WHEEL AND MFG. COMPANY • CHICAGO

First and Finest

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